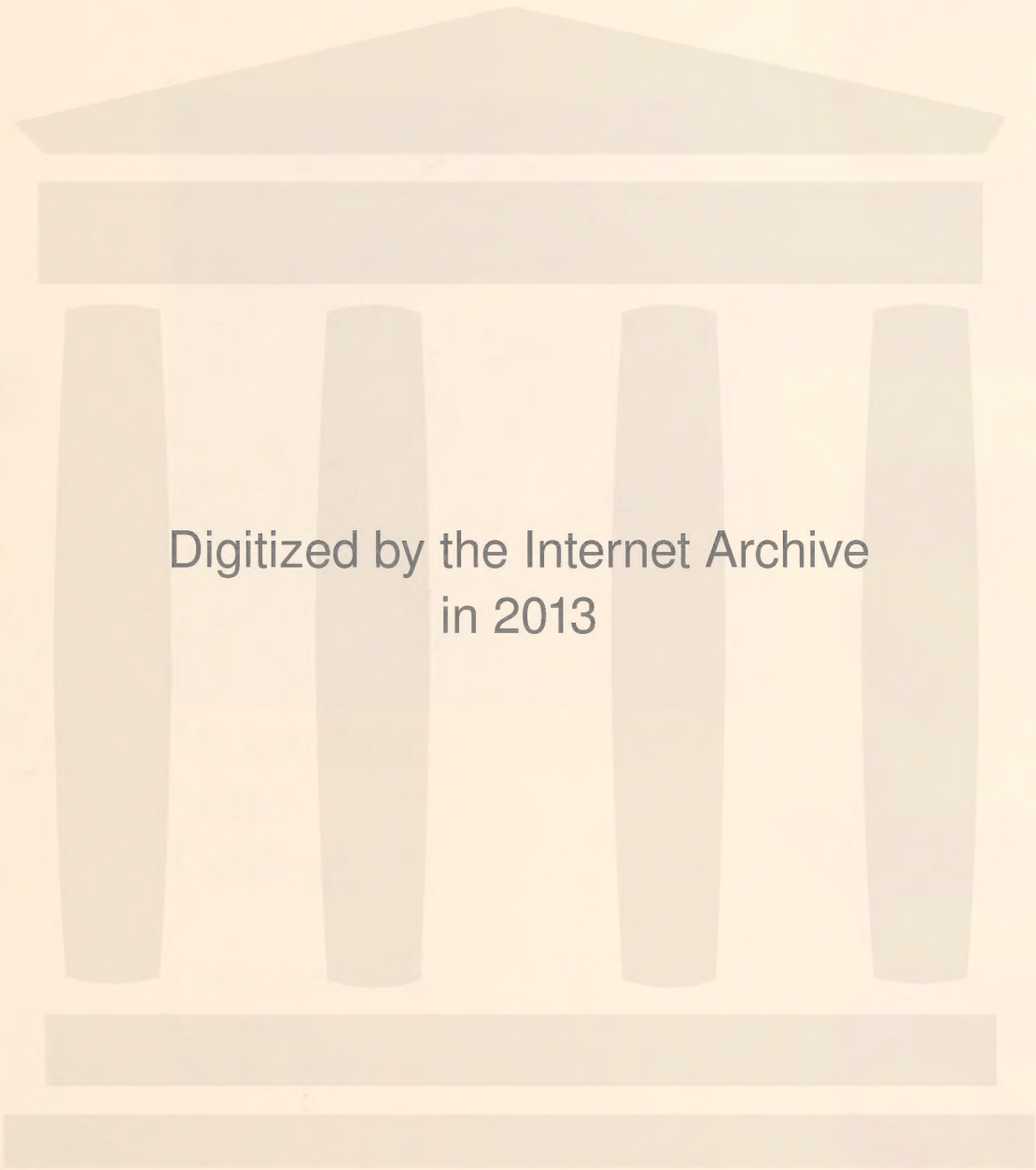
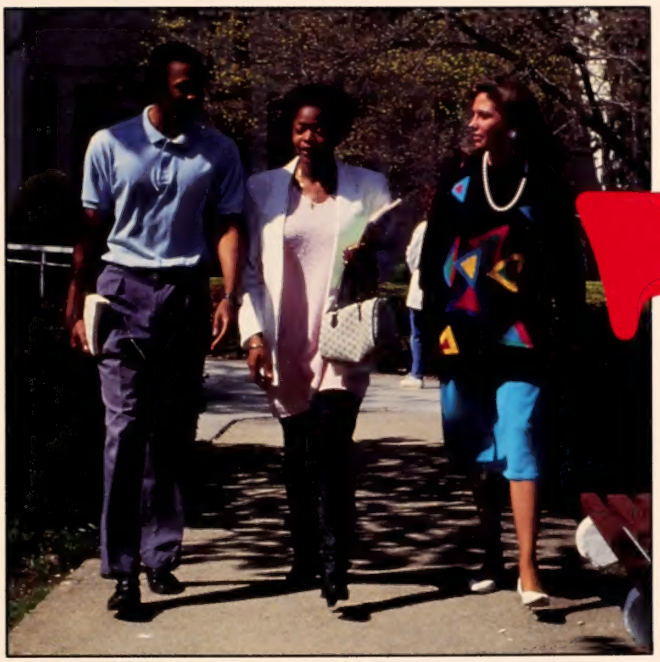

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Montclair State College

Undergraduate
Catalog
1988–1990

Catalog

Montclair State College at a Glance

Location:

200-acre campus, at the intersection of Valley Road and Normal Avenue, Upper Montclair, New Jersey (Essex County), one mile south of intersection of Valley Road and Route 46. Main entrance on Normal Avenue.

Background:

Established in 1908, and is a state-supported, coeducational, four-year college of liberal arts and sciences. Has offered Master of Arts programs since 1930, Master of Business Administration since 1981 and Master of Education since 1985.

Enrollment:

About 9,800 undergraduates and 2,650 graduate students in 1987. Students come from all New Jersey counties, from other states, and from foreign countries. Some 2,000 live on campus with the remainder living in off-campus accommodations or commuting from home.

Faculty:

The college has 420 full-time faculty members. About 80 percent have terminal degrees. Ratio of faculty to students is 1 to 18.

Accreditation:

Accredited by the Middle States Association of Colleges and Schools, and by the National Council for the Accreditation of Teacher Education.

Degrees Offered:

Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Master of Arts, Master of Arts in Teaching. Master of Education and Master of Business Administration.

Facilities:

Ten major academic buildings, student center building, library, gymnasium, playing fields, administration building, and housing for 2,000 students in residence halls and apartments.

Costs:

Annual tuition and fees (1987–88): $1,800. Annual room and board (1987–88): $3,556.

Financial Aid:

Some form of aid is provided to approximately 60 percent of qualified full-time students. Aid is available as loans, scholarships, grants, and employment.

Montclair State College is an Equal Opportunity/Affirmative Action Institution. In compliance with relevant federal and state civil rights legislation, the College does not discriminate on the basis of sex, race, color, religion, national origin, age, or physical capability in the operation of its educational program or activities (admission, access to programs and course offerings, physical education, competitive and intramural athletics, counseling, student and other employment, use of facilities, and College sponsored extracurricular activities.)

Inquiries relating to equal opportunity/affirmative action issues may be directed to the offices of Student Affairs or Equal Opportunity/Affirmative Action.

The Undergraduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change any of its announcements, regulations or requirements at any time without notice or obligation. The Office of Academic Affairs is responsible for the preparation of the content of this publication.

Undergraduate Catalog 1988–1990

Admissions
203 College Hall
(201) 893-4444

Financial Aid
321 College Hall
(201) 893-4461

Registrar
204 College Hall
(201) 893-4376

Residence Facilities
411 Bohn Hall
(201) 893-4156, 5252

Office of Publications
Montclair State College
Upper Montclair, N.J. 07043

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Statement on the Undergraduate Program

The Board of Trustees of Montclair State College reaffirms its belief that the liberal arts and sciences form the essential basis of an undergraduate program of higher education.

In an era of decreasing resources, diminshed public support, and increased popular interest in vocationalism, there are strong pressures to succumb to temporary concerns, and in doing so to lose sight of the enduring and essential purpose of a college education. There are also economic and political forces which, if not constrained by thoughtful response, threaten the integrity of academic processes and the quality of academic standards of institutions of higher education everywhere.

The Board of MSC believes that the College has the special purpose of contributing to, critically examining, preserving and transmitting the culture of our society to succeeding generations, and that the protection of this purpose is the public trust for which we are primarily responsible. We believe that the progress of the College towards this goal has been exemplary, and in particular we applaud the steps already taken by the faculty and administration to maintain and enhance these values. Consistent with the policy and planning function of the Board, however, we believe that faculty and administration efforts might be enhanced by an understanding of what the Board sets forth as a vision of the undergraduate program by 1990. By that time, based upon the work of the faculty and administration, we hope to see:

1. a rigorous and comprehensive program of general education required of all students which includes not only advanced learning skills and preparation for effective citizenship, but which also fosters an appreciation of a shared human heritage leading to the enhancement of the quality of both personal and community life;
2. an enrollment reflecting a balance between those students majoring in liberal arts programs, and those in professional and career programs which in addition to their own strengths, are soundly rooted in and related to the strengths of our liberal arts departments;
3. support programs which assist underprepared students who share our goals to meet the demanding standards of which we think they are capable if suitably challenged, excited and educated;
4. ongoing processes of program review and evaluation in which the joint efforts of faculty, administration and Board ensure maintenance of the highest standards of quality;
5. a diverse student body reflecting different cultural and social backgrounds, but united by a common commitment to the academic values for which the College stands;
6. programs which strengthen the efforts of an able and dedicated faculty and which support the scholar's continuing need for intellectual and personal renewal.

In setting these general goals, the Board recognizes the difficult economic and political environment likely to face higher education in the future, and that many other institutions have chosen to confront these challenges in a manner different from our own. We believe, however, that the need to create a distinctive mission and climate for the College and to prepare students fully for an uncertain but clearly difficult future requires us to make this commitment.

It is the Board's intent to view its future consideration of new policies and programs within the context of this statement, and to have prepared for campus discussion a brief annual report concerning activities and progress in each of the six areas.



Academic Calendar 1988–90*

Fall Semester 1988

Registration/Orientation	August 24, 25, 26
Evening Registration	August 24, 25
Residence Halls Check-in:	
New Students	August 24
Returning Students	August 30
Classes Begin	September 1 (except Weekend College) September 9 (Weekend College)
Labor Day Holiday (No Classes)	September 5
Thanksgiving Holiday (No Classes)	November 24–27
Classes End	December 16
Examination Period	December 17–23
Residence Halls Close	December 23
End of Semester	December 23

Winter Session 1989

Late Registration	January 3
Classes	January 3–20 (14 days)

Spring Semester 1989

Registration/Orientation	January 17, 18, 19
Evening Registration (If the College is closed because of inclement weather during this period, the registration schedule moves forward by one day.)	January 17, 18
Residence Halls Check-in:	
All Students	January 22
Classes Begin	January 23
Spring Recess (No Classes)	March 20–26
Classes End	May 15
Examination Period	May 16–22
Residence Halls Close	May 22
End of Semester	May 22
Commencement	May 24

Summer Sessions 1989

Registration	May 25, June 5, 6
Residence Halls Check-in:	
All Students	June 25
Pre-Session	May 30–June 9 (9 days)
Eight-Week Session (No Friday Classes)	June 12–August 3
Six-Week Session (No Friday Classes)	June 26–August 3
Independence Day Holiday (No Classes)	July 4
Post-Session	August 7–18
Residence Halls Close	August 4

Fall Semester 1989

Registration/Orientation	August 28, 29, 30
Evening Registration	August 28, 29
Residence Halls Check-in:	
New Students	August 29
Returning Students	August 31
Labor Day Holiday (No Classes)	September 4
Classes Begin	September 5
Thanksgiving Holiday (No Classes)	November 23–26
Classes End	December 15
Examination Period	December 16–22
Residence Halls Close	December 22
End of Semester	December 22

Winter Session 1990

Late Registration	January 2
Classes	January 2–19 (14 days)

Spring Semester 1990

Registration/Orientation	January 16, 17, 18
Evening Registration (If the College is closed because of inclement weather during this period, the registration schedule moves forward by one day.)	January 16, 17
Residence Halls Check-in:	
All Students	January 21
Classes Begin	January 19 (for Weekend College only) January 22 (for remainder of College)
Spring Recess (No Classes)	March 19–25
Good Friday/Easter Holiday (No Classes)	April 13–15
Classes End	May 17
Examination Period	May 18–24
Residence Halls Close	May 24
End of Semester	May 24
Commencement	May 25

Summer Sessions 1990

Registration	May 29, June 4, 5
Residence Hall Check-in:	
All Students	June 24
Pre-Session	May 29–June 8 (9 days)
Eight-Week Session (No Friday Classes)	June 11–August 2
Six-Week Session (No Friday Classes)	June 25–August 2
Independence Day Holiday (No Classes)	July 4
Post-Session	August 6–17
Residence Halls Close	August 3

***The College reserves the right to modify this calendar.**

About the College

From its founding in 1908, the history of Montclair State College has been one of change, growth and distinction.

Established as a Normal School in 1908 in response to the growing demand for professionally trained teachers, the school became Montclair State Teachers College in 1927, dedicated to the education of secondary school teachers through a four year Bachelor of Arts degree program. Part-time, extension and summer courses were added to meet the professional needs of teachers, and in 1932 Montclair was authorized to offer the master's degree. With its strong emphasis on the liberal arts and sciences, Montclair in 1937 became one of the first teachers' colleges accredited by the Middle States Association. Responding to rapid enrollment growth in the late forties and fifties with an expanded curriculum and faculty, the campus became Montclair State College in 1958 and a comprehensive, multi-purpose institution in 1966.

With a Fall 1987 enrollment of about 12,700 students, Montclair is the largest of New Jersey's state colleges. It offers 44 undergraduate majors, 27 graduate majors and numerous interdisciplinary programs, minors and concentrations through five schools: Business Administration, Fine and Performing Arts, Humanities and Social Sciences, Mathematical and Natural Sciences, and Professional Studies. The College is well regarded for the strength of its teacher education program, and its cooperative education program places over 600 students a year. Montclair is unique among New Jersey's state colleges in maintaining a Classics and a Linguistics Department, and its programs in Music Therapy and Toxicology are also exceptional. The College Honors Program provides a lively and creative environment to support the academic and intellectual interests of outstanding students, and the International Studies Program fosters a sense of global awareness and cultural diversity through new curricular projects, exchanges, conferences, lectures and colloquia. The College's Institute for the Advancement of Philosophy for Children trains teachers from around the world in the application of logical thinking to the elementary school classroom, while Project THISTLE (Thinking Skills in Teaching and Learning) improves the basic skills of urban college-bound students by working with teachers in the Newark public schools. The College's Health Careers Program, the EOF Legal Studies/ Skill Development Program and the Weekend College for Spanish-speaking or bilingual students are all examples of the creative responses undertaken to combine access with academic excellence. Montclair is proud of the fact that its Black student profile increased during a period of statewide decline, and is currently reviewing all of its recruitment and retention efforts to identify additional methods to improve our institutional response to this pressing need.

Montclair State College is accredited by the Middle States Association of Colleges and Schools, and by the National Council for the Accreditation of Teacher Education for the preparation of elementary and secondary school teachers and school service personnel. These programs are also approved by the New Jersey Department of Education using the standards of the National Association of State Directors of Teacher Education and Certification. In addition, programs in the Department of Music are accredited by the National Association of Schools of Music; in Fine Arts by the National Association of Schools of Art and Design; in Theatre by the National Association of Schools of Theatre; in Dance by the National Association of Schools of Dance; in Home Economics by the American Home Economics Association. In addition the Music Therapy program has been approved by the National Association for Music Therapy. The Center for Legal Studies' minor in Paralegal Studies has been approved by the American Bar Association, and the American Chemical Society has granted official approval to programs in the Department of Chemistry.

Montclair's leadership in the arts is reflected in its designation by the state as a Center of Excellence in the Fine and Performing Arts, and throughout the year the College presents major music, dance, theatrical, literary and artistic activities to audiences from the metropolitan area. Public workshops, lectures, demonstrations and conferences are also offered by a number of departments and programs and regularly feature distinguished scholars and experts from a variety of dsciplines. Over 1300 academically gifted students from grades 4 through 9 take part in advanced instructional programs offered weekends on campus, while close to 500 musically talented youngsters receive instruction through the Music Preparatory division each year. The New Jersey School of the Arts provides additional opportunities for about 300 gifted high school students to study art, music, dance, theatre and creative writing with nationally recognized faculty and visiting artists on campus throughout the year. In the summer of 1986, the College received a $5.7 million Challenge Grant award to support a wide range of arts-related programs designed to improve career entry opportunities for students in the arts, while also enriching the College's General Education program.

The College's Psycho-Educational Center provides special services to children with learning, reading, speech and other disabilities, while the Center for Continuing Education offers a variety of adult education programs including ESL and GED instruction, and career and professional training for industrial and sales workers, hospital and nursing home workers and the like. The Center also serves as a national clearinghouse of information on adult education.

In all of its activities, Montclair State College remains committed to its primary mission of providing high quality undergraduate and graduate programs to the citizens of New Jersey and beyond. Most recently the College received a second Challenge Grant of $1.1 million to create an Institute for Critical Thinking, which will support research, sponsor conferences, develop instructional programs and undertake a variety of other projects to teach critical thinking skills across the curriculum.

Degree Programs and Concentrations*

ADMINISTRATION AND SUPERVISION ..... M.A.
- Educator Trainer

ALLIED HEALTH ..... B.S.

ANTHROPOLOGY ..... B.A.

BIOLOGY ..... B.S., M.A.

BUSINESS ADMINISTRATION ..... B.S., M.B.A.
- Accounting
- Finance
- Management
- Marketing

BUSINESS ADMINISTRATION ..... B.S.
- General Business
- Office Systems Administration
- Quantitative Methods
- Retail Merchandising and Management

BUSINESS ADMINISTRATION ..... M.B.A.
- Business Economics
- Quantitative Analysis

BUSINESS EDUCATION ..... B.S., M.A.
- Distributive Education

CHEMISTRY ..... B.S., M.A.

CLASSICS ..... B.A.

COMMUNICATION SCIENCES AND DISORDERS ..... B.A.

COMMUNICATION SCIENCES AND DISORDERS ..... M.A.
- Audiology
- Early Childhood Special Education
- Learning Disabilities (Teacher-Consultant)
- Speech-Language Pathology (Correctionist)

COMPUTER SCIENCE ..... B.S., M.A.

COUNSELING AND GUIDANCE ..... M.A.
- Human Services

DANCE ..... B.F.A.

ECONOMICS ..... B.A.

EDUCATION ..... M.Ed.

EDUCATIONAL PSYCHOLOGY ..... M.A.

ENGLISH ..... B.A.

ENGLISH AND COMPARATIVE LITERATURE ..... M.A.

ENVIRONMENTAL STUDIES ..... M.A.
- Environmental Education
- Environmental Health
- Environmental Management
- Environmental Science

FINE ARTS ..... B.A., M.A.
- Art History
- Education
- Studio
- Studies in the Visual Arts

FINE ARTS ..... B.F.A.
- Studio

FRENCH ..... B.A.
- Translation

FRENCH ..... M.A.

GENERAL HUMANITIES ..... B.A.

GEOGRAPHY ..... B.A.
- Urban Studies

GEOSCIENCE ..... B.S., M.A.

GERMAN ..... B.A.

HEALTH EDUCATION ..... B.S.
- Community Health Services

HEALTH EDUCATION ..... M.A.

HISTORY ..... B.A.

HOME ECONOMICS ..... B.A.
- Consumer Affairs
- Family Child/Nursery School
- Fashion Studies
- Home Economics Education (Comprehensive)

HOME ECONOMICS ..... B.S.
- Foods and Nutrition
- Foodservice Management

HOME ECONOMICS ..... M.A.
- Family Relations/Child Development
- Home Economics Education (Comprehensive)
- Home Management/Consumer Economics

INDUSTRIAL EDUCATION AND TECHNOLOGY ..... B.S.
- Industrial Studies

INDUSTRIAL EDUCATION AND TECHNOLOGY ..... M.A.

ITALIAN ..... B.A.

LATIN ..... B.A.

LINGUISTICS ..... B.A.

MATHEMATICS ..... B.S.
- Applied Mathematics

MATHEMATICS ..... M.A.
- Computer Science
- Mathematics Education
- Pure and Applied Mathematics
- Statistics

MUSIC ..... B.A.
- History
- Music Education (Comprehensive)

MUSIC ..... B. Mus.
- Performance
- Theory Composition

MUSIC ..... M.A.
- Music Education (Comprehensive)
- Performance
- Theory Composition

MUSIC THERAPY ..... B.A.

PHILOSOPHY ..... B.A.

PHYSICAL EDUCATION ..... B.S.
- Adult Fitness Program

PHYSICAL EDUCATION ..... M.A.

PHYSICS ..... B.S.

POLITICAL SCIENCE ..... B.A.

PSYCHOLOGY ..... B.A.
- Community Psychology

PSYCHOLOGY ..... M.A.
- Industrial and Organizational Psychology

READING ..... M.A.

RECREATION PROFESSIONS ..... B.S.
- Commercial Recreation and Tourism
- Community Recreation and Leisure Services
- Outdoor Recreation and Interpretive Services
- Therapeutic Recreation

RELIGIOUS STUDIES ..... B.A.

SOCIAL SCIENCES (ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, HISTORY, SOCIOLOGY, URBAN STUDIES) ..... M.A.

SOCIOLOGY ..... B.A.

SPANISH ..... B.A.
- Translation

SPANISH ..... M.A.

SPEECH AND THEATRE ..... B.A.
- Broadcasting
- Communication Studies
- Speech/Theatre Education (Speech Arts/Dramatics)
- Theatre

SPEECH AND THEATRE ..... M.A.
- Communication Arts
- Theatre

THEATRE ..... B.F.A.
- Acting
- Design/Technical Theatre

TEACHING ..... M.A.T.
- Teaching Middle School Philosophy

TOXICOLOGY ..... B.S.

TRANSCULTURAL STUDIES ..... B.A.
- Asian Studies
- Latin American Studies
- World Cultures

**Additional minors and certification programs are offered. Check index for reference to appropriate sections of catalog.*

ACCREDITATIONS AND MEMBERSHIPS

The College is accredited by the Middle States Association of Colleges and Schools. In addition, the National Council for the Accreditation of Teacher Education has granted accreditation for the preparation of elementary and secondary school teachers as well as school service personnel.

Other academic accreditations include the American Home Economics Association (Department of Home Economics, School of Professional Studies), National Association of Schools of Art and Design (Department of Fine Arts, School of Fine and Performing Arts), National Association of Schools of Dance (Department of Speech and Theatre, School of Fine and Performing Arts), National Association of Schools of Music (Department of Music, School of Fine and Performing Arts) and National Association of Schools of Theatre (Department of Speech and Theatre, School of Fine and Performing Arts). In addition, the undergraduate minor in Paralegal Studies offered by the Center for Legal Studies, School of Humanities and Social Sciences, has been approved by the American Bar Association; programs offered by the Department of Chemistry, School of Mathematical and Natural Sciences, have been approved by the American Chemical Society; and the undergraduate program in Music Therapy offered by the Department of Music, School of Fine and Performing Arts, has been approved by the National Association for Music Therapy.

The College is a member of the American Assembly of Collegiate Schools of Business, American Association of Colleges for Teacher Education, American Association of State Colleges and Universities, American Council on Education, Association of American Colleges, Council of Graduate Schools in the United States, New Jersey Association of Colleges and Universities, New Jersey Association of Colleges for Teacher Education, North American Association of Colleges for Teacher Education, North American Association of Summer Sessions and Northeastern Association of Graduate Schools. Woman graduates of the College are accepted for membership in the American Association of University Women.

HISTORY

Founded in 1908 as a normal school, the College began immediately to establish a reputation for academic excellence. When it became Montclair State Teachers College, its purpose was exclusively to prepare secondary school teachers. Later, part-time and extension courses were added and the summer sessions began. The New Jersey State Board of Education then empowered the College to give graduate courses and grant the master's degree. Eventually the College merged with Panzer College of Physical Education and Hygiene and began to offer a new major, Physical Education and Health.

In 1958, the official name was changed to Montclair State College and the academic thrust was directed more strongly toward arts and sciences programs. Since then, the College has placed increasing emphasis on the education of future scholars, government and business administrators and managers, lawyers, physicians, dentists, scientists and researchers, journalists and writers. At the same time, it has maintained its traditional excellence in the preparation of secondary school teachers.

The New Jersey Higher Education Act of 1966 transferred the College's governance from the State Department of Education to the College's own board of trustees. The board consists of nine citizens of New Jersey appointed by the State Board of Higher Education and confirmed by the governor. The president of the College is a member, ex officio. Faculty, student and alumni representatives are elected by their peers to meet with the board. This change in governance gave the College increased independence in the management of its programs.

FINANCIAL SUPPORT

The College derives its primary income from the State of New Jersey, supplemented by grants from government agencies and private foundations, and by gifts from friends, alumni, corporations and other private philanthropic sources, as well as student tuition and fees.

GOALS

Since the establishment of its own board of trustees, the College's programs have constantly expanded. Today, as a result of extensive programs on graduate and undergraduate levels, the College is an institution offering a broad range of arts and sciences as well as professional programs to students with many varying needs, interests and career aims.

Throughout its existence, Montclair State College has been loyal to the basic needs of higher education by recruiting a scholarly, dedicated faculty; selecting earnest students of high academic standing; devising and operating as full and thorough a curriculum as possible; providing extracurricular experiences to extend and enrich the cultural horizons of the College community; keeping alert for opportunities to make the educational process increasingly effective, and emphasizing the importance of the individual in an expanding society. Its historical commitment to the preparation of teachers continues.

Schools of the College

School of Business Administration

Dean: Suresh A. Desai, Ph.D.

The undergraduate programs of the School of Business Administration develop the ability to assume the positions of decision-making responsibility within business and non-profit institutions. Building upon the liberal arts foundation provided by the General Education Requirements, the curriculum provides a blend of analytical capacities and institutional knowledge which enables students to enter and continuously adapt to our increasingly complex world. The School provides concentrations in Accounting, Business Education and Office Systems, Economics, Finance, Management, Marketing, and Quantitative Methods. Internships and Co-operative Education experiences are available; and, professional training is offered in business teacher education.

Departments within the School are:
ACCOUNTING, LAW AND TAXATION
BUSINESS EDUCATION AND OFFICE SYSTEMS ADMINISTRATION
ECONOMICS
FINANCE AND QUANTITATIVE METHODS
MANAGEMENT
MARKETING

School of Fine and Performing Arts

Acting Dean: Barbara L. Wheeler, Ph.D.

Designated as a Center of Excellence in the Fine and Performing Arts, Montclair State College continues its commitment to quality programs in art and education. Its School of Fine and Performing Arts offers graduate and undergraduate programs in fine arts, music, speech, theatre dance, broadcasting and communication. In 1986, the School of Fine and Performing Arts was awarded the $5.7 million Governor's Challenge for Excellence in the Arts Grant, the largest known arts program grant anywhere. The grant is designed to bridge the gap between the academic and the professional world and expands upon our already exciting arts curriculum and cultural program offerings. The School also includes a Music Preparatory Division, which offers instruction to children from age 3 to high school, and the Office of Cultural Programming which presents major dance, music, theatrical, literary and visual art events. The School also provides a variety of exhibits in the College Art Gallery.

The School of Fine and Performing Arts provides professional training and education for students seeking careers in the arts, education, public service and management. It presents cultural events and offers courses and experiences in the arts for the enrichment of campus and community life. The resources of the School are taken to the community in the form of chamber music, dance concerts, lectures and demonstrations. The School seeks to stimulate public interest in the arts and to encourage research, creative work and experimentation in the arts.

Departments within the School are:
FINE ARTS
MUSIC
SPEECH AND THEATRE

School of Humanities and Social Sciences

Dean: Philip S. Cohen, Ph.D.

Although they offer several programs with specific career objectives, the departments that comprise the School of Humanities and Social Sciences have traditionally been concerned with the activities and issues central to the liberal arts and general education.

Each department offers at least one major program leading to the Bachelor of Arts degree. Teacher certification is available in appropriate fields.

The School continuously examines its curriculum to strengthen current programs and to reflect new directions. The increasingly important role played by computers in the humanities and social sciences is one example of the vitality and relevance of the curriculum. It also provides numerous opportunities for internship training in business, clinical, governmental, and educational settings, including the Communication Disorders Center and the Psychoeducational Center located on campus. Interdisciplinary and applied minor programs (e.g. legal studies), whereby students may obtain a broad liberal education along with specific career skills are encouraged.

In its brief history, the School of Humanities and Social Sciences has established a unique identity based upon diversity within a unified, organic whole. Its broad spectrum of departments and programs embraces a variety of methods, content and organization, each bearing a special relationship to the others.

Departments within the School are:
ANTHROPOLOGY
CLASSICS
COMMUNICATION SCIENCES AND DISORDERS
ENGLISH
ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES
FRENCH
GERMAN AND SLAVIC
HISTORY
LINGUISTICS
PHILOSOPHY AND RELIGION
POLITICAL SCIENCE
PSYCHOLOGY
SOCIOLOGY
SPANISH AND ITALIAN



School of Mathematical and Natural Sciences

Acting Dean: Max A. Sobel, Ph.D.

The programs within the School of Mathematical and Natural Sciences are designed to provide a sound foundation for post-baccalaureate work in professional or graduate school as well as careers in private business and industry and government agencies. In addition, the School is strongly committed to enhancing the understanding of the mathematical and natural sciences within the College community through a variety of activities including general education and collateral courses, guest lectures and symposia.

The undergraduate research program provides many students with a unique opportunity to learn how science is accomplished. Under the direction of knowledgeable and dedicated mentors, students have access to unusually extensive facilities and equipment including scanning and transmission electron microscopes, a cell culture laboratory, a fourier transform nuclear magnetic resonance spectrometer, a gas chromatograph/mass spectrometer and an X-ray diffraction spectrometer. The Academic Computing Network provides access to an IBM 3033 mainframe, a DEC VAX 11/780 minicomputer, and a variety of DEC, IBM, and Apple minicomputers.

Departments within the School are:
BIOLOGY
CHEMISTRY
MATHEMATICS AND COMPUTER SCIENCE
PHYSICS AND GEOSCIENCE

School of Professional Studies

Dean: Nicholas M. Michelli, Ed.D.

The School of Professional Studies offers a wide variety of programs leading to professional careers in private industry, government agencies, non-profit organizations, and public and private schools. All programs in the School are firmly grounded in the liberal arts, and include the opportunity for field based internships. Graduate degree programs are offered by all departments.

The School is responsible for the coordination of the college-wide teacher education program. A number of research and service centered projects are operated by the School, including the Life Skills Center, the Center for the Study of Human Sexuality, the Reading and Study Skills Center and Project THISTLE. In addition, the New Jersey School of Conservation, one of the largest environmental and outdoor education centers in the world, is part of the School of Professional Studies.

Departments within the School are:
COUNSELING, HUMAN SERVICES AND GUIDANCE
CURRICULUM AND TEACHING
EDUCATIONAL FOUNDATIONS
EDUCATIONAL LEADERSHIP
HEALTH PROFESSIONS
HOME ECONOMICS
INDUSTRIAL STUDIES
PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

Admissions

Address requests for application forms and inquiries concerning admission to: Director of Admissions, Montclair State College, Upper Montclair, New Jersey 07043. Completed applications should be returned to this address accompanied by a $10.00 non-refundable fee. Decisions are announced on a rolling basis beginning in October, until all spaces are filled.

All admissions are made without regard to an applicant's financial circumstances, sex, race, age, religion, national origin, or physical handicap.

Admission Requirements

Full-Time Freshmen

1. An application should be completed and returned as early in the senior year as possible, but no later than March 1.
2. The Scholastic Aptitude Test (SAT) should be taken preferably in November or December, but not later than January of the senior year. The student should request that the College Board forward the results to Montclair State College (College Board Code number 2520).
3. The student is required to have a certificate of graduation from an approved secondary school. A High School Equivalency Certificate is acceptable. Sixteen subject units must be completed according to the following breakdown:

English	4
Social Studies	2
Mathematics*	3
Science (laboratory)	2
Foreign Language	2
Electives (in English, social studies, science, math or foreign language	3
Total	16

*Admission to computer science requires 4 years of mathematics including trigonometry. Admission to business administration requires Algebra II.

4. Students who wish to enter a specialized field of study are assumed to have prepared for it during the high school years. Achievement scores, though not required, are useful in demonstrating area strength and may be submitted with application materials. Admission to the departments of Fine Arts, Music, or Speech and Theatre is gained through departmental tests, auditions, or interviews. Admission to Montclair State College does not guarantee acceptance into a particular department.
5. Application and admission dates for full-time freshmen:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	March 1	March 15
Spring semester	November 1	November 10

6. Accepted full-time students are required to pay a non-refundable $50 fee by May 1 to hold their places in the class.

Transfer Students

1. Approximately one-third of new students entering Montclair each year have attended another college.
   To be eligible for consideration for transfer admission, a student is required to have completed a minimum of 15 credits with at least a 2.00 (C) average at another accredited college. Specific academic programs may have additional requirements. Transcripts of high school and all previous college records are to be forwarded to Montclair State College.
2. Transfer students may attend on either a full- or part-time basis. Full-time students must choose a major. A departmental interview may be required.
3. Application and admission dates for full-time transfer students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	May 1	May 15
Spring semester	November 1	November 10

4. Transfer students desiring part-time admission follow the application dates listed below for part-time students.

Part-Time Students

1. Part-time undergraduate study at Montclair State College offers degree program opportunities to students whose responsibilities limit the time they are able to devote to academic pursuit. A student may also apply to attend classes with no specific degree objective. A maximum of 9 credits per semester may be taken. Although part-time students may register for courses in the day, evening, or weekends, students whose personal schedules will only permit them to take courses in the evening should be aware that only the following majors are currently available after 4:30 p.m. Monday through Thursday:
   Allied Health*
   Anthropology
   Business Administration
   Computer Science
   Economics
   English
   Environmental, Urban and Geographic Studies
   History
   Home Economics
   Industrial Education
   Mathematics
   Political Science
   Psychology
   Sociology
   Transcultural Studies
   *Limited to transfer students from medical related A.A. and A.A.S. degree programs only.
2. Application and admission dates for part-time students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	July 15	July 30
Spring semester	November 15	December 1

Educational Opportunity Fund (E.O.F.) Students

1. The Educational Opportunity Fund (E.O.F.) Program at Montclair State College extends the opportunity to attend college to the individual who has potential to succeed, but lacks the educational and financial resources to gain admission through ordinary procedures.
2. Applicants to the E.O.F. Program must be seeking full-time admission, residents of New Jersey for at least one year, from an educationally and economically disadvantaged background, and ineligible for admission by ordinary standards. Counseling, tutorial services and a six-week pre-college summer program are mandatory components of the Program. E.O.F. assists students in adjusting to college life and competing at the college level.
3. E.O.F. Program applicants file an application for admission to the College along with the Financial Aid Questionnaire according to the full-time freshman application date (March 1) for fall semester admission. In addition, complete the New Jersey Financial Aid Form (N.J.F.A.F.) and forward a copy to the Financial Aid Office, Montclair State College.

   Family Gross Annual Income Limitations for Dependent Student Eligibility

Number of Persons in Household	Family Gross Annual Income Limitation
2	$15,000
3	17,010
4	19,020
5	21,030
6	23,040
7	25,050
more than 7	Add $2,010 for each additional household member

4. Independent students may also qualify and should contact the Financial Aid Office regarding income limitations for eligibility.
5. Application and admission dates for E.O.F. students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	March 1	March 15

6. Further information may be obtained through the Educational Opportunity Fund Office, College Hall, Room 304-C, telephone (201-893-4384).

International Students

Students from foreign countries file an application for admission through the Office of Admissions.

Students whose native language is not English are required to submit scores from the Test of English as a Foreign Language. Since the I-20 form can be granted only to accepted full-time students, candidates from foreign countries should be aware that they must apply for full-time rather than part-time admission.

Application and admission dates for full-time International Students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	April 1	April 15
Spring semester	November 1	November 10

Second Baccalaureate Students

1. Students who have been awarded a baccalaureate degree may obtain a second bachelor's degree in most non-teaching majors at Montclair State. Business administration is **not** available. A minimum of 32 semester hours must be completed at Montclair State College after admission to a second baccalaureate program. The academic departments determine the exact number of semester hours of major and collateral courses to be completed for the second bachelor's degree. Credits earned through this program are considered undergraduate and are assessed at undergraduate tuition and fee rates. These credits are not applicable toward a higher degree at a later date.
2. Students are eligible to apply for admission to a second baccalaureate degree program if they have graduated from an accredited four-year college with a minimum cumulative grade point average of 2.50 based upon a possible 4.00 system.
3. Applications and admission dates for second baccalaureate students:

Admission for:	Completed application on file by:	Supporting documents due by:
Full-time Students		
Fall semester	May 1	May 15
Spring semester	November 1	November 10
Part-time Students		
Fall semester	July 15	July 30
Spring semester	November 15	December 1

Weekend College Students

Montclair State offers students the opportunity to pursue their education during the weekend. Many Weekend College students are Spanish-speaking and bilingual, or English-speaking seeking valuable cross-cultural contact.

Students attend classes on Friday evening or during the day on Saturday and Sunday. Those who speak English as a second language may enroll in intensive courses to gain college-level proficiency in English. These courses are offered through the Linguistics Department. Other classes are conducted in both English and Spanish. Majors available to the Weekend College students are Sociology and Spanish. A student who has earned less than 36 credits may apply as an undeclared major.

Application and admission dates for Weekend College students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	July 1	July 30
Spring semester	November 1	November 10

Second Careers Students

1. Adults over twenty-five years of age who wish to begin or continue their college education part-time or full-time may receive assistance and support through the Second Careers program.
2. Individuals who have never attended college before take the College Level Examination Program (CLEP) general examinations for possible advanced standing credits and also enroll in a two-credit Reentry Seminar.
3. Individuals reentering college through the Second Careers program may not have earned previously more than 30 transferable credits nor may they have been matriculated students at another college during the two years immediately prior to Montclair State College.
4. Application and admission dates for Second Careers program:

Admission for:	Completed application on file by:	Supporting documents due by:
Full-time Students		
Fall semester	May 1	May 15
Spring semester	November 1	November 10
Part-time Students		
Fall semester	July 15	July 30
Spring semester	November 15	December 1

5. Further information may be obtained through the Second Careers Office, College Hall, Room 306, telephone (201-893-4431).

Basic Skills

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date and registration will not be completed for entering freshman students until the Basic Skills test scores are in. Developmental courses in reading, writing, and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT and credits will be added to the number of semester hours required to graduate. Full-time students MUST COMPLETE ALL REQUIRED DEVELOPMENTAL COURSES DURING THEIR FIRST YEAR of enrollment; part-time students within the first two years of enrollment. Students not completing this requirement may be dismissed from the college.

The MSC basic skills requirement in speech must be fulfilled within a student's first 58 semester hour credits by satisfactory completion of the speech communication requirement or by successful Speech Placement Waiver evaluation. Students may consult the Basic Skills Office for a fuller description of the program.

Note that Basic Reading Skills, Basic Math Skills I, Basic Math Skills II, and Basic Speech Improvement do not carry graduation credits. However, these courses do provide credits toward a student's full-time status and do count toward the student grade point average.

Provisions for Non-Native Speakers of English

Non-native speakers of English will be given a Placement test for English as a Second Language (ESL). Those who achieve a score which indicates a need for ESL instruction will enroll in ESL courses instead of Basic Composition or Freshman Composition and will be exempted from their Basic or Freshman Composition requirement until the necessary ESL courses are completed. Students enrolled in ESL courses should not take the English portions of the New Jersey Basic Skills Exam until their last semester of ESL. ESL Placement Tests are usually given in June, August, and January. The ESL Placement Exam and ESL courses are given by the Linguistics Department.





Tuition and Fees

In order to qualify for the in-state tuition rate, the student, parent(s), or guardian(s) upon whom the student is financially dependent must have lived within the State of New Jersey for a continuous period of one year immediately prior to enrollment. (N.J.S.A. 18:62) All foreign exchange students are considered as non-residents for tuition purposes, regardless of where they reside while attending MSC. Any questions concerning residency status should be directed to the Business Office.

Tuition and fees are subject to change without prior notice.

Tuition

Undergraduate:	
Resident	$44.00 per semester hour
Non-resident	$66.00 per semester hour

Fees

General Service Fee	$1.75 per semester hour
Student Building Fee	$7.75 per semester hour
Student Government Association Fee	$2.00 per semester hour (Maximum: $24.00 per registration)
Athletic Fee	$1.25 per semester hour

Special Fees

Late Registration Fee: for students whose initial registration for the semester is during late registration	$15.00
Late Payment and/or Dishonored Check Fee	$15.00
Music Fees: Part-time and graduate students registering for applied music courses and private study in composition pay regular tuition and fees, plus $150 per applied music course.	
Parking Fee	$20.00 per year
I.D. Card Replacement Fee (lost card)	$5.00
Library Fines: overdue books, periodicals, etc.	$.05 per day
Student Teaching Fee	$60.00
Transcript Fee	$2.00 per copy

Refund of Tuition and Fees

Tuition and fees are refundable in full if classes are discontinued by the College.

	Per Cent Refunded
Withdrawal before course begins	100%
Withdrawal during first third of course	50%
Withdrawal after the first third of course	none

Refunds for short term courses will be calculated in the same manner at the time of withdrawal.

Students are not permitted to withdraw from courses after the midpoint of the semester. In computing refunds, the date of withdrawal is the date on which the Office of the Registrar receives a written notice from the student or from the date of the postmark for those received through the U.S. mail.

Summary of Expenses

Estimated tuition, fees and expenses* for students attending Montclair State College are as follows for the nine month September-May academic year for a student taking 32 credits:

	New Jersey Commuting Student	New Jersey Student Residing Away From Home	Out-of-State Student Residing Away From Home
Tuition	$1408.00	$1408.00	$2112.00
General Service Fee	56.00	56.00	56.00
Athletic Fee	40.00	40.00	40.00
Student Government Association	48.00	48.00	48.00
Student Union Building Fee	248.00	248.00	248.00
Student Health Insurance (Optional)	90.00	90.00	90.00
Subtotal (payable to College)	1890.00	1890.00	2594.00
Textbooks and Supplies (Estimated)	400.00	400.00	400.00
College Housing (Estimated)	—	2368.00	2368.00
Meals (Estimated) Maximum Meal Plan	—	1188.00	1188.00
Personal Expenses (Estimated)	850.00	850.00	850.00
Total	$3140.00	$6696.00	$7400.00

All Tuition and Fees are Subject to Change

*Tuition, fees and expenses based upon 1987-88 figures.

Financial Aid

The Office of Student Financial Aid provides financial assistance to eligible students through the following:

Federally Funded Programs

1. College Work-Study
2. Carl D. Perkins Loans
3. Pell Grants
4. Supplemental Educational Opportunity Grants

State of New Jersey Programs

1. Distinguished Scholars
2. Educational Opportunity Fund
3. Garden State Scholarship
4. Guaranteed Student Loans
5. PLUS Loan
6. Public Tuition Benefits
7. Student Assistants Employment
8. Tuition Aid Grants
9. Veterans Tuition Credit Program
10. Viet Nam Veterans Tuition Aid Program

Information regarding the N.J. Higher Education Assistance Authority Guaranteed Student Loan (GSL), PLUS loan and other financial aid programs may be obtained from the Financial Aid Office. Programs of financial assistance are revised from year-to-year and hence both eligibility criteria and the availability of funds may change. Inquiries for further information and requests for applications should be addressed to:

The Office of Student Financial Aid
C-321
College Hall
Montclair State College
Upper Montclair, N.J. 07043

Scholarships and Awards

Many special awards, funds, and scholarships have been established by the benefactors of the College who share its interest in quality education. A complete list of these opportunities may be found at the back of this catalog in the Appendix of Scholarships and Awards.

Intra-Collegiate Academic Programs

The Office of Intra-Collegiate Academic Programs is the administrative unit which oversees innovative programs designed to meet changing educational needs of both traditional and non-traditional students. It also administers the Academic Advising Center, the Office of Basic Skills and the College Tutorial Center.

Academic Advising Center

Building E
Telephone: 201-893-4106, 4146, 4223, 4237

All matriculated students, full and part-time, are encouraged to seek regular academic advising during their college years. Advisors are available both day and evening for students who have not yet declared a major and those who intend to change majors. Advisors are also responsible for evaluating transfer credits.

Full- and part-time matriculated students who have declared majors are assigned to and counseled by faculty advisors in their respective departments. Additional information on faculty advising may be obtained by calling the Department office.

Undeclared majors are expected to declare a major by the time they have earned 58 credits. Students are encouraged to come to the Academic Advising Center for assistance in making this decision.

Basic Skills Program

Room 207, Richardson Hall
Telephone: 201-893-4476

The Office of Basic Skills coordinates and administers the New Jersey College Basic Skills Placement Test (NJCBSPT) to all entering freshmen and readmitted or transfer students with fewer than 26 transferable credit hours. It also monitors the completion of all required developmental courses and administers required post-testing in these courses. Full-time students must complete all required developmental courses during their first year of enrollment; part-time students within the first two years of enrollment.

College Tutorial Center (CTC)

Room 015A — Building E
Telephone: 201-893-4364, 5425

The College Tutorial Center (CTC) is a college wide facility designed to assist students in a variety of basic skills, liberal arts and academic major prerequisite courses. Graduate and undergraduate student tutors provide a combination of individual and small group tutorials. Computer-assisted instruction is also available in a variety of academic disciplines and academic skills development topics. Drop-in tutoring is available for Math courses.

Students are encouraged to apply for tutorial assistance prior to mid-term to assure maximum academic support.

Workshops are provided in diverse topics of student interest such as Time Management, Test Taking Strategies, Effective Study Skills and Math Word Problems.

Cooperative Education

Room 104, Student Center Annex
Telephone: 201-893-4426

One of the most important career opportunities for Montclair State College students is participation in Cooperative Education. Co-op enables students to integrate classroom studies with supervised paid work experience, earning academic credits and funds for college.

Students with a minimum grade point average of 2.0 and 45 credits are encouraged to participate in cooperative education. Credits can be applied to the student's major or free electives. All positions are paid and students must meet the hiring requirements of the company in which they seek employment. Interested students should contact the Cooperative Education Office early in their academic career in order to plan for their Co-op semesters.

Educational Opportunity Fund (EOF)

Room 304, College Hall
Telephone: 201-893-4383

The EOF provides the educationally and economically disadvantaged person with the opportunity to attend colleges or professional schools in New Jersey. The goal is to make college possible for the student who has the potential to succeed but lacks the credentials required to be admitted through the normal process. The EOF program recruits, admits, and supports the motivated student through graduation from college.

A wide range of majors are available to EOF students. They are also offered special services that help them in their college careers. These include assistance in applying for financial aid; a required six-week summer pre-college experience that aids in the transition and adjustment to college life; tutorial assistance; and continual academic, career and personal counseling.

For detailed information, call the director of EOF.

Part-Time Provisionally Matriculated Students

Room 306, College Hall
Telephone: 201-893-4431, 4432, 4433

Students who do not meet admissions criteria for full-time or part-time matriculated status may be accepted by the College on a provisional basis. Under this catgory, students are limited to a maximum of 9 semester hours each semester. Upon completion of 15-18 semester hours of course work and a grade point average of 2.0 ("C") or better, students are granted matriculation status. At this point students may apply to the Admissions office for full-time status.

Provisionally matriculated students who do not meet the minimum retention requirement after 15 semester hours of course work are dismissed from the College.

During the prematriculation period, students are advised individually and in groups by counselors in the ICAP Office. Additional services include Orientation and Advisement for new students and a specially designed Freshman Seminar for part-timers. Provisionally matriculated students generally attend evening and weekend classes; day classes are open to them on a space-available basis until their transfer to full-time status.

Second Careers Program

Room 306, College Hall
Telephone: 201-893-4431

This Program is designed for adults, aged 25 and older, who want to begin or resume study for a bachelor's degree either part-time or full-time. It recognizes and addresses the unique problems of adult learners by providing pre-admission and post-admission counseling, a re-entry seminar that focuses on adults entering or returning to college, flexible class scheduling and an opportunity earn advanced credits through the College Level Examination Program (CLEP) general examination.

The Program offers a Study Skills and CLEP Orientation Workshop series on Saturdays beginning in early January and again in early September each year. Another series of mini-seminars on "Is College for Me?" is also scheduled each semester for prospective students. Second Careers Program alumni serve as panelists discussing issues relevant to entering or returning adult students.

For further information about the Second Careers program, call the director.

Special Tutorial Program (STP)

Room 8, Building E
Telephone: 201-893-5425, 4364

STP is designed to provide educational opportunity for a select group of educationally underprepared students. The mission of STP is to help make college a reality for this group of highly motivated students who lack the credentials to meet the criteria for college entrance. STP recruits its population through the EOF program applicant pool.

STP students are provided with special services such as counseling and tutorial assistance. They are also encouraged to enroll in a course entitled College Learning and Thinking Skills as an introduction and orientation to college academic and social life.

For additional information call the director of STP.

Upward Bound Project

Room 401, Chapin Hall
Telephone: 201-893-4187

This program was established for high school students from low-income families who have inadequate secondary school preparation. It is a pre-college program that helps students to acquire the skills and motivation necessary for higher education.

Sponsored by Montclair State College, the program is fully funded by the United States Office of Education. The summer phase of the Project is held at Montclair State College and the academic year component at a site in Jersey City, N.J. About one hundred students, in the ninth, tenth, and eleventh grades, are recruited from Jersey City and Montclair for the Project.

Weekend College

Room 306, College Hall
Telephone: 201-893-4433

Montclair State College offers the opportunity to attend college during the weekends as a full-time or as a part-time student working toward a bachelor's degree. Classes are offered through the weekend in both the fall and the spring semesters beginning on Friday evenings and continuing on Saturdays and Sundays. A student may take one course or several, on one day, or on all three days. As a student progresses toward the degree, he or she may have to take some of the advanced courses during the week.

Each student has an academic advisor who helps in the proper selection of courses and scheduling that meets the student's needs and interests.

The Weekend College is a valuable cross-cultural experience for the English speaking person seeking to work among the Spanish speaking. Many of the students in the Weekend College are Spanish speaking because a major part of the Weekend College is geared toward providing an education that meets the needs of the Spanish-speaking or bilingual person.

To obtain detailed information, contact the Weekend College office.

Resources and Facilities

Academic Advisement

Students are encouraged to seek academic advisement often during their college careers. College academic advisors and faculty advisors can help students to plan a program and provide assistance in referring students to other resources if necessary. Contact the Academic Advising Center.

Alumni Association

Graduates of Montclair State College automatically become members of the Alumni Association. Each year the Association Executive Board and the alumni director plan a schedule of activities including class reunions, fall homecoming, Alumni Weekend, special conferences and senior class activities. The Association also sponsors scholarships and faculty grants and conducts fundraising activities which enable alumni to support their favorite College projects. The Alumni Office is located in the Alumni House, 34 Normal Avenue, Upper Montclair, telephone (201-893-4141).

Bookstore

The College Store is located on the lower level of the Student Center. Normal hours of operation are Monday through Thursday, 8:30 A.M.-8:00 P.M. and Fridays, 8:30 A.M.-4:30 P.M. Extended hours are available at the beginning of each semester. Telephone (201-893-4309).

The College Store carries required textbooks and supplies as well as a wide variety of other merchandise. In many cases, textbooks are available for purchase several weeks prior to the beginning of the semester. It is recommended that students bring their course schedules to the College Store to aid in the selection of books, which should be purchased early. During the fall and spring semesters, undamaged books may be returned within ten calendar days of the first day of class provided that students produce sales receipts.

Campus Employment

College Work Study Program (CWSP) makes it possible for a student to earn money in a federally supported work-study program in the community or on campus. Eligibility is based on how much need is shown on the New Jersey Financial Aid Form. Earnings can only be used for educational expenses. To apply, contact the college's Financial Aid Office for the correct form.

Student Assistants Work Program (SA) involves various jobs on campus. Again, eligibility is based on a student's proven need. SA earnings can only be used for meeting education costs.

Information on *all* these aid programs is available through the Financial Aid office, 321 College Hall, telephone (201-893-4461).

Career Services

Career Services assists students with all phases of their career development, from choosing a major and finding a part-time job to planning long-range career goals and obtaining full-time work after graduation. In instructional seminars and through individual counseling, students learn how to set career goals, write effective resumes, and conduct successful interviews and job searches. The office has a library where information on careers, employment trends, and employers can be found. Unique services which are offered include a computerized part-time and full-time job matching system, videotaped "mock interviewing," and a computerized interactive career guidance system. Each year the office attracts more than 200 major employers to campus to recruit seniors. In addition, thousands of full-time, part-time and summer jobs are listed annually.

Career Services is located in the Student Center Annex, Room 104. The office's telephone number is 893-5194.

Center for Continuing Education

The Center for Continuing Education provides educational programs for industry, community agencies and individual adult learners. Services include training programs for employee career mobility, professional certification and recertification and instruction in adult basic skills (reading and math), English as a Second Language (ESL), high school equivalency preparation (GED), and computer literacy. The Center administers the College's Older Adult Tuition-Waiver Program. In addition, testing for college credit and professional certification is available through the Center.

The Center's main office is located at 860 Valley Road, telephone (201-893-4353/5154).

Computer Services Center

The Computer Center, located in Room 106, College Hall, provides facilities for both the academic and administrative functions of the College.

Students, faculty and administrative personnel are afforded the use of various computing equipment featuring the central facility, New Jersey Educational Computing Network (ECN), a consortium of all New Jersey State Colleges, which provides large IBM mainframe equipment, including an IBM 3033 MVS/SP, and a 4381 VM/370SP.

Local hardware includes a DEC VAX 8600, 8200 and 11/780, a Burroughs B1955, and several IBM, DEC, and Apple microcomputer labs. A wide-range of software applications are maintained on these systems, allowing the users to pursue their own particular lines of study. Additionally, a campus-wide network is partially installed utilizing fiber optics to provide convenient access to all resources.

Health Services

The College Health Center is staffed by a doctor and four nurses. The Center provides pre-participation examinations, tuberculosis screening, first aid, pregnancy tests and referrals to personal physicians or specialists.

Student medical insurance for accident and sickness benefits is available at a moderate annual premium, payable at registration.

Although it is recommended for participation in College intramurals, coverage is not required. Additional information is available from the Health Center, Blanton Hall (201-893-4361).

Identification Cards

All students enrolled at the College are required to carry a current Montclair State College identification card (ID). The identification card is mandatory for borrowing library materials and for participation in other student activities. Cards may be obtained in the College ID Card Office, which is located in the Student Center, Room 423, (201-893-4147).

Intercollegiate Athletics

Aligned in the division of Student Affairs, Montclair State College offers a diversified varsity athletic program of 20 sports for men and women. Student-athletes enjoy competition year-round within NCAA Division III, at the local, regional, and national level.

The women's varsity program includes basketball, cross country, field hockey, gymnastics, softball, swimming/diving, tennis, and indoor/outdoor track.

The men's varsity program includes baseball, basketball, cross country, football, golf, lacrosse, soccer, tennis, indoor/outdoor track, wrestling, swimming/diving, and water polo. Co-ed cheerleading is also offered.

Panzer Gymnasium Complex—Six lane indoor pool with electrical timer; wrestling and weight rooms; training room; fully equipped gymnastic area; locker rooms with sauna; basketball court and auxillary gym.

Sprague Field—Astro-turf: seating for six thousand; permanent lighting system (all home football, field hockey, soccer, and lacrosse games are scheduled for this facility).

Pittser Field—Baseball diamond, eight tennis courts and a lighted platform tennis court which is adjacent to field.

Softball Fields—2 lighted fields for greater flexibility of scheduling tournaments, games and practices.

Dioguardi Field—Lighted eight-lane synthetic surface track & field and two natural grass fields for practice and intra-mural use.

The Intercollegiate Athletics Office is located in Panzer School Center, telephone (201) 893-5234 or 5236.

Library

The Harry A. Sprague Library is housed in a centrally located, attractive modern building. The library is designed to provide ample reading and study areas, and easy access to open shelves in pleasant, comfortably furnished surroundings. Combining the best of traditional resources with the latest in non-print communications technology, the three floors of the library form a vast information center.

The library owns more than a million and a quarter items, with about 350,000 books on the shelves, over 3,100 periodical subscriptions, 30,000 government documents, and more than 860,000 non-print items. The Non-Print Media Department has equipment for viewing and hearing a collection of videocassettes, records, audiocassettes, filmstrips, soundslide sets, and microforms. As a designated government documents depository, the library receives and makes available for public use thousands of Federal and New Jersey State publications.

Public Service and Technical Service librarians are experts both in library science and in an additional subject area. The Reference librarians are dedicated to helping students learn how to approach research assignments as well as locate information. Hundreds of classes in library instruction are conducted each year by the librarians. These range from the basic introductory library lecture to classes in advanced research in the various subject fields. Reference librarians are always available to assist students with individual projects and to answer specific reference questions.

The library has the most modern computerized library technology, which provides access to the library's holdings through an on-line system. Interlibrary loan uses a computer terminal to quickly locate and send for books and articles that are not in the collection and are needed by students. On-line computerized bibliographic searching is available to students and faculty as a regular library service. While these technological changes are important, the library's primary mission is, and will always be, the enhancement and support of the College's educational program through an excellent library collection and by personal attention to each student's individual needs. Telephone (201-893-4291).

Media Center

A well-equipped Media Center is located in College Hall. It takes care of all requests for audiovisual materials, equipment and services. The center also handles the scheduling and rental of films.

On request, the staff will demonstrate audiovisual techniques and design and produce custom graphic materials. The center lends a variety of equipment to students for special projects. Telephone (201-893-4241).

Older Adult Tuition Waiver Program

New Jersey residents 65 years of age or older are eligible to take college courses on a space available, tuition waiver basis. To apply, contact Montclair State College's Center for Continuing Education.

Location: 860 Valley Road, Legge House

Telephone: (201) 893-4353.

Panzer School Council

In 1958, Panzer College, a noted single-purpose institution with a rich tradition of developing teachers for physical education and health, was incorporated into Montclair State College and became known as the Panzer School of Physical Education and Hygiene at Montclair State College. The College became the custodian and depository of Panzer College records. The Panzer School Council was established in 1971 during a reorganization of the College. Presently, the Council is part of the School of Professional Studies. Membership consists of the chairpersons of the Department of Health Professions and Physical Education, Recreation and Leisure Studies as well as the Dean of the School of Professional Studies. A major portion of the Council's efforts to aid students in extra-curricular activities are actively and generously supported by the Panzer-Montclair College Alumni Association. Such support takes the form of direct scholarship aid, providing funds for professional conferences, workshops and sports clinics. Telephone (201-893-5167).

Parking and Traffic

Parking is available for students who display current decals or permits in those areas designated on campus maps. Campus shuttle buses are available for transportation from the Quarry lots to upper campus. Decals may be purchased from the business office. Temporary permits may be obtained from campus police headquarters in Chapin Hall.

All N.J. State traffic regulations are enforced at MSC. Campus regulations are listed in the current Schedule of Courses booklet.

Police and Security

The College maintains a full-time police force, whose mission is to protect and serve members of the MSC community. The police enforce all traffic and parking regulations, being empowered to issue both campus and municipal citations. In addition they receive and investigate all reports of crimes, provide crime prevention information and handle medical emergencies.

MSC also has security officers whose primary purpose is the protection of property. (This includes fire safety activities.)

For information about police and/or security; traffic and parking; self protection seminars, and other police-related matters, call Campus Police, Chapin Hall, at telephone (201-893-5222).

Pre-Law Advisor

The College Pre-Law Advisor, Dr. Harry Balfe, counsels interested students in the possibilities and procedures for law school admissions. He also maintains a library of catalogues from law schools actively seeking qualified students. The office of the Pre-Law Advisor is located in Russ Hall 327, telephone (201-893-7757 or 4238).

Through the new Pre-Law Studies Minor, assistance is offered in planning appropriate curriculum for the individual student. See LEGAL STUDIES for further information. The office of the Director of the Center for Legal Studies, Dr. Marilyn Tayler, is located in Partridge Hall 313, telephone (201-893-4152).

Psychological Counseling

A staff of professional psychologists and a part-time psychiatrist are available every school day at the Office of Psychological Services. The staff observes the ethical standards of the American Psychological Association, guaranteeing confidentiality.

Counselees have access to testing, diagnosis, individual and group therapy, off-campus referrals and a variety of groups for specific problems.

Psychoeducational Center

The Psychoeducational Center is a campus-based training facility. Its purpose is to provide integrated clinical and educational experiences for students of Montclair State College who are preparing for profesional roles as audiologists, music therapists, reading teachers, speech pathologists, recreation therapists, learning disabilities specialists, or teachers of the handicapped. Training is conducted through the campus demonstration school, communication disorders center, early intervention program, testing center, and music therapy clinic, which provide service to the community. The center is located in Room 118 of the Speech building, telephone (201-893-4225).

The Reading and Study Skills Center

The Reading and Study Skills Center, located in the southwest corner of College Hall, rooms C 101 to C 109 (telephone number: 893-4247), has faculty and facilities to provide reading and study skills help to college students. Consultation, computer assisted instruction, tutoring and independent activities are available.

Religious/Campus Ministry Programs

While Montclair State does not have a House of Worship, student needs are served through religious groups, chartered by the SGA. These groups include: Chi Alpha Christian Fellowship, InterVarsity Christian Fellowship, the Jewish Student Union, Montclair Protestant Foundation and Newman — the Catholic Campus Ministry. Various Chaplains and Campus Ministers can be reached at: Newman Center: 746-2323/893-7240; Jewish Student Union; 893-5280; Campus Ministry Office: 893-5364.

Residence Halls

The College offers several choices for student residence. For undergraduates, there are five residence halls, and one apartment complex. They hold 2,000 men and women. There is also off-campus housing for more than 500 in the surrounding community.

New students are given high priority for campus residence, and returning residents have an excellent possibility of reacceptance for succeeding years.

Each hall is staffed by a Residence Hall director and student assistants. They can describe the many activities and organizations available, as well as job and leadership opportunities.

In residence halls, students choose one of the board plans at the dining halls. If they live off campus or in the apartment complex, they can sign up for a college meal plan or not, as desired.

For further information, contact The Residence Life Office, Bohn Hall, Room 411, telephone 201-893-4156 for campus information and 893-5188 for off campus.

Student Center

The Student Center is a main gathering point for recreational and social activities. This large modern building has a cafeteria, snack bar, dining room, rathskeller, bookstore, gameroom, candy store, information desk, and a flea market.

This building, along with the newly constructed annex and locker facility, offer ample meeting locations, comfortable lounges, a weightroom, and numerous student offices.

Summer Sessions

Summer Sessions provides opportunities for people to pursue college studies and take advantage of special educational, cultural and activity programs during June, July and August. The six-week session begins the last week in June. Most courses scheduled during this session meet at morning and early afternoon hours, Monday through Thursday. The eight-week session begins mid-June. Most eight-week courses meet Monday, Tuesday and Thursday evenings. In addition, short-term courses and programs are offered throughout the summer and during pre-session (first two weeks of June) and post-session (middle two weeks of August). College courses, seminars and workshops are offered on the undergraduate and graduate levels.

Qualified visiting students from other colleges and universities and Montclair State College students who meet the requirements for registration may enroll in Summer Sessions courses and programs. Interested individuals should contact the Summer Sessions office, 215 College Hall, for further information, telephone (201-893-4352).

Television Center

A well-equipped Television Center is located in Life Hall, Room 117. It takes care of all requests for television equipment and services. On request, the staff will demonstrate television techniques and lend a variety of television equipment to students for special projects. Telephone (201-893-4341).

Winter Session

Innovation and flexibility were the reasons Montclair State College established Winter Session.

Within a three-week period devoted to intensive work during January, students are offered the opportunity to take a single course which usually could not be incorporated in the fall or spring semester schedule. Traditional courses normally offered over a sixteen-week semester may be offered in a non-traditional format during Winter Session.

Winter Session affords the faculty an opportunity to teach new courses, renovate old ones, design interdepartmental courses, develop study abroad, travel, conduct research, or explore areas of study that are new, different and thought provoking.

The Women's Center

The Women's Center is a unit of the Student Affairs division and makes available:

1. gender related information through programs and written materials;
2. discussion and support groups;
3. referral sources related to women's problems, and;
4. a library.

The Center operates in response to students' interests and needs.

The Women's Center is located in Room 420, Student Center, telephone (201-893-5106).

Student Affairs and Activities

Office of Student Affairs

The Office of Student Affairs is located in 217 College Hall and exists to provide general assistance to students, faculty, and others when their problems cannot be readily resolved through the College's routine procedures and channels.

The Vice President for Student Affairs coordinates the activities of: Admissions, Campus Ministry, Career Services, Dean of Students, Financial Aid, Health Center, Intercollegiate Athletics, Psychological Services, Registrar's Office, Residence Life, Student Activities, and the Women's Center. In addition, the Vice President, assisted by the Dean of Students and Associate Dean of Students, serves as an advocate on behalf of all students attending the College.

The philosophy of the Student Affairs Office is to create opportunities for favorable personal development. The following major organizations represent the formal structure supporting that philosophy.

Student Government Association, Inc. (SGA)

All undergraduates are members of the Student Government Association. The SGA provides legal aid, drop-in center, pharmacy program, and other services through fees paid by all full-time and part-time undergraduates.

The legislative branch is composed of student representatives from each school and academic department. The executive branch consists of the president, vice president, treasurer, and secretary.

Black Student Cooperative Union (BSCU)

The programming efforts of BSCU are directed to meet the needs of minority students on campus and to expose non-minority students to minority experience. The events are quite diversified and are aired at fulfilling the cultural, social and educational needs of our students.

Class One Concerts (C1C)

C1C gives the College community opportunities to enjoy on-campus concerts by various popular groups and artists. Members learn all phases of concert production, and expand their awareness of professional music presentation.

College Life Union Board (CLUB)

CLUB coordinates social, cultural, and recreational student programs. Movies, trips, parties, and other activities are planned each semester. Annual CLUB events include Winter and Spring Balls, and Spring Day.

Conservation Club

The Conservation Club is MSC's newest Class One Organization. Our purpose is to serve as an educational tool for students who wish to learn more about conservation and environmental issues.

Human Relations Organization (HRO)

HRO serves students with training sessions in group dynamics and psychological development. An HRO weekend is held twice a year at a local camp site for nominal cost. HRO also sponsors on-campus seminars and group interaction during fall and spring semesters.

La Campana

The College yearbook *La Campana* is a yearly reflection of campus activities and concerns through the media of artwork, prose, poetry and photography. Students interested in photography and the graphic arts are encouraged to join.

Latin American Student Organization (LASO)

LASO promoted awareness of the Hispanic culture. This is achieved through informative educational and social programs which promotes an appreciation for an understanding of the culture. Each Fall "Latin Month" is planned to provide an opportunity to see and sample the music, art and cuisine of the Latin American culture.

The Montclarion

The weekly student newspaper keeps the College community abreast of campus news, local events, and happenings at other colleges. Members gain journalistic experience in news, feature, and sports writing, as well as copy editing, layout, typesetting, photojournalism, circulation, and advertising. All undergraduates are eligible for staff positions.

Players

Players is a theatre organization which offers students the opportunity to participate in every phase of play production. Full-scale shows are presented each year. Players also sponsor theatre trips to New York City, and presents workshops by guest artists.

Quarterly

Quarterly, the literary and art magazine, seeks original material for publication each semester. It offers students a chance to express and share their individuality with the College community.

Student Intramural and Leisure Council (SILC)

SILC provides students with an opportunity to become involved in intramural sports, recreation and leisure activities. The day-to-day programming offered by SILC includes leagues for men and women in football, basketball, softball, volleyball, tennis, and bowling. It also sponsors badminton, water polo, and pinochle, and special activities such as trips to professional sporting events and a night of roller skating.

WMSC -101.5 FM

WMSC, "the sound choice," is the College radio station run by students. It broadcasts to northeastern New Jersey seven days a week, featuring a wide selection of music and entertainment programming, news and specials. WMSC provides experience for students interested in learning radio production and management, newscasting, and disc jockeying.

Academic Policies and Procedures

Advanced Placement

Students with demonstrable equivalencies may, under appropriate circumstances, be exempted from required courses and permitted to take more advanced work. Eligibility for advanced placement may be established on the basis of high school records or by scoring sufficiently well on specialized tests including the Advanced Placement Examination of the College Entrance Examination Board, College Level Examination Program (CLEP) tests, challenge examinations, etc. Students desiring advanced placement are advised to consult with the appropriate department chairperson and school dean to determine specific possibilities within their area of competence.

Attendance

Students are expected to fulfill all course requirements, and although attendance is not always mandatory, it is desirable. Absence from laboratory or studio sessions shall be by agreement with the instructor. Instructors should notify the students, in writing, of what the course requirements will be. Professors may penalize the student for failure to meet specific attendance requirements.

It is the student's responsibility to attend at least one class meeting of all courses for which he/she is enrolled during the first week of the class to confirm his/her registration.

Audit Policy

To "audit" a course is to attend class regularly, without the obligation of participating in class discussions, laboratory work, examinations, performances or any class activity other than listening. A course may be audited under the following conditions:

1. Students auditing a course are required to establish eligibility for admission, register, and pay full tuition and fees.
2. A course may be audited on a space available basis only and requires approval and signature of the department chairperson.
3. Students are required to file an Audit Application with the Office of the Registrar in addition to the registration form.
4. The College's attendance policy applies to audited courses.
5. Audited courses are considered as part of the student's regular course load.
6. Audited courses do not carry academic credit.
7. An "audit" may not be changed to "credit" nor a "credit" to "audit" after the audit application deadline.
8. The student's record will show a grade of "AU" for the course if the instructor certifies that the regulations, including required attendance, have been met.
9. A student who later seeks credit by examination for a course previously audited must be enrolled in the College at the time that the examination is taken and is subject to such fee charges for the examination as the College may establish.
10. A student who has audited a course may take the course at a later date for credit.

Basic Skills Requirements

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date and registration will not be completed for entering freshman students until the Basic Skills test scores are in. Developmental courses in reading, writing, and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT and credits will be added to the number of semester hours required to graduate. Full-time students MUST COMPLETE ALL REQUIRED DEVELOPMENTAL COURSES DURING THEIR FIRST YEAR of enrollment; part-time students within the first two years of enrollment. Students not completing this requirement may be dismissed from the college.

The MSC basic skills requirement in speech must be fulfilled within a student's first 58 semester hour credits by satisfactory completion of the speech communication requirement or by successful Speech Placement Waiver evaluation. Students may consult the Basic Skills Office for a fuller description of the program.

Note that Basic Skills, Basic Math Skills I, Basic Math Skills II, and Basic Speech Improvement do not carry graduation credits. However, these courses do provide credits toward a student's full-time status and do count toward the student's grade point average.

Cancellation of Courses and Staffing

The College reserves the right to cancel any course for which the enrollment is insufficient. Students may then register, without penalty, for another course for equal credit or receive a full refund of tuition and fees. The College also reserves the right to change faculty assignments and, therefore, cannot guarantee students faculty of their choice.

Class Standing

Sophomore standing is defined as a minimum of 26 semester hours earned with a cumulative grade point average of 1.60 based upon a possible 4.00 system; junior standing is a minimum of 58 semester hours earned with a cumulative grade point average of 1.80; senior-standing is a minimum of 90 semester hours earned with a cumulative grade point average of 2.00. One hundred twenty-eight semester hours (more in certain degree programs) earned with a 2.00 cumulative and major grade point average in a prescribed degree program of study are required for graduation.

Counseling

All matriculated students, full- and part-time, are encouraged to seek regular academic counseling during their college years. College counselors are available both day and evening for students who have not yet declared a major and those who intend to change majors. College counselors are also responsible for evaluating transfer credits.

Full- and part-time matriculated students who have declared majors are assigned to and counseled by faculty advisors in their respective departments. Additional information on faculty advising may be obtained by calling the Department offices.

Undeclared majors are expected to declare a major by the time they have earned 58 credits. Students are encouraged to come to the College Counseling Center office(s) for assistance in making this decision.

Course Loads

Full-Time Undergraduate Students

Full-time undergraduate students should earn 15-16 credit hours per semester. Special permission is required to take a Course Overload of more than 19 semester hours. To be considered a full-time student one must register for and continue active enrollment in at least 12 semester hours for the entire semester.

Full-time undergraduate students who have at least sophomore standing (26 credit hours earned) and a 3.00 or above cumulative grade point average or above a 3.00 grade point average for the semester most recently completed may, upon the approval of the Dean of the School in which the student is majoring, register for a Course Overload. A School Dean may make exceptions to the above eligibility criteria for Course Overloads. Requests for Course Overloads of 23 or more credit hours must additionally be approved by the Director of Academic Advising

All registrations for Course Overloads are on a space available basis during Change of Program registration. The College reserves the right to reduce the course load of any student who registers for more than 19 credit hours without Course Overload approval.

Part-Time Students

Undergraduate students who have been admitted for part-time study may not register for more than nine semester hours. Students must register for and complete a minimum of three semester hours of course work within three semesters of the date of admission; otherwise it will be necessary to reapply for admission. In addition, students who have begun course work and do not register for and complete a minimum of three semester hours of course work within any three consecutive semesters (including fall, spring and summer) will have to reapply for admission.

Course Overlap

Students may not register for courses where there is a time/day overlap. Should such a condition exist, the College reserves the right to drop one of the courses from the student's schedule.

In certain laboratory or studio type courses, in exceptional circumstances, course registration overlap may be permitted with written approval of the instructors of both courses as well as the approval of the dean and chairperson responsible for the instructional area.

Written permission must be obtained prior to the end of the official in-person registration.

Students will not be permitted to register for a course overlap during the Advanced Registration and approval will not be granted during this time.

Credit by Examination and Assessment of Life Experience

Montclair State College offers the opportunity to all students to earn up to 60 semester hours through the College Level Examination Program (CLEP), the Advanced Placement Examination of the College Entrance Examination Board (CEEB), the Thomas Edison College Examination Program (TECEP), departmental challenge exams or Portfolio Assessment of Experiential Learning at Thomas Edison State College.

The CLEP General Examinations offer entering students the chance to earn up to 24 credits; thus the bachelor's degree may be earned in three years. In addition to the general examinations there are also over 30 CLEP subject examinations. The following policies apply regarding the use of credit from CLEP exams toward the degree at MSC.

THESE RULES APPLY TO ALL STUDENTS ADMITTED EFFECTIVE *FALL 1988* OR THEREAFTER *AND* ALL STUDENTS (REGARDLESS OF ADMISSION DATE) WHO TEST AFTER 9/1/88.

All students are responsible to know and apply the following rules and regulations which govern the application of credit earned through CLEP General and Subject Matter Exams toward the MSC degree. It is very important that all students recognize that *ACHIEVING THE REQUIRED TEST SCORE DOES NOT NECESSARILY MEAN THAT CREDIT IS APPLICABLE TOWARD MSC GRADUATION REQUIREMENTS.* IN ADDITION, IT IS THE STUDENT'S RESPONSIBILITY TO INSURE THAT HE/SHE IS NOT SEEKING CREDIT FOR A COURSE FOR WHICH PREVIOUS CREDIT WAS GRANTED. Students who fail to adhere to these policies may not be permitted to apply CLEP credit toward the degree regardless of score on the exam.

1. CLEP General Exams must be taken prior to completion of the student's first semester. Students should not register in the first semester for courses for which they plan to seek CLEP credit.

2. Subject Matter exams which are taken for possible use in fulfillment of major or collateral requirements must receive *advance* written approval of the major department chairperson in the form of a memo to the Director of Academic Advising. Subject exams may *not* be included within the last 24 credits. (see "residence requirement")

3. Those students seeking credit for 1501:105—"Freshman Composition" via the CLEP General Exam must include the essay with the English test, and if scoring above the cut-point, will be required to submit a research paper to the Director of Freshman English to fulfill the research component of the college writing requirement. Please not that the essay is not available at each CLEP administration. ONLY STUDENTS PASSING OR EXEMPT FROM THE NEW JERSEY COLLEGE BASIC SKILLS PLACEMENT TEST IN WRITING MAY RECEIVE CREDITS FOR THE CLEP EXAM IN ENGLISH *REGARDLESS OF CLEP EXAM SCORE.* A student who fails the Writing portion of the Basic Skills test must take English 100 even if achieving an acceptable score on CLEP.

4. ONLY STUDENTS PASSING OR EXEMPT FROM THE NEW JERSEY COLLEGE BASIC SKILLS PLACEMENT TEST IN COMPUTATION *AND* ALGEBRA MAY RECEIVE CLEP GENERAL EXAM CREDIT IN MATHEMATICS *REGARDLESS OF CLEP EXAM SCORE.* This policy shall apply to all students seeking Math CLEP credit regardless of major.

5. Students receiving six (6) credits in foreign language will be required to complete an additional six (6) credits of foreign language to fulfill the language requirement. Students earning twelve (12) credits will be required to complete either "Introduction to General Linguistics," an upper level course in the same language, or a lower level course in a different language.

6. To receive credit a full-time student must earn a minimum of 12 semester hours with a minimum grade-point-average (GPA) of 2.00 in the first semester. A part-time student must earn a minimum of 12 semester hours within the first 14-15 semester hours attempted with a minimum GPA of 2.00.

Students having questions about these guidelines are encouraged to contact the Academic Advising Center (893-4106, 4146, 4223, 4237) *before* taking any CLEP tests.

CLEP tests are given nationally during the third week of each month. Montclair State College is a testing center and administers CLEP Exams monthly *except* December and February. An application and testing schedule may be obtained by calling 893-5154 or writing:

CLEP Testing Center
Center for Continuing Education
Montclair State College
Upper Montclair, New Jersey 07043

Montclair State offers students the opportunity to take subject matter challenge examinations for many courses. Not all courses at the College are eligible for credit by examination.

To receive credit by examination:

1. In the first semester, a full-time student must earn a minimum of 12 semester hours with a minimum grade-point-average (GPA) of 2.00.
2. A part-time student must earn a minimum of 12 semester hours within the first 14-15 semester hours attempted with a minimum GPA of 2.00.

Credit for Life Experience

Montclair State College uses the evaluating services of Thomas Edison College for those who want life experience credits. All requests for evaluation must be made to Thomas Edison College in the first semester of enrollment. This evaluation and a report of credit will be sent to Montclair State. Failure to initiate the process in the first semester can cause the student the loss of credit.

Final Evaluation

It is the student's responsibility to complete the curriculum prescribed in the College catalog in effect, or as subsequently modified, when he/she matriculates. For undergraduates, a minimum cumulative grade point average of 2.00 (C) and major grade point average of 2.00 based upon a possible 4.00 system is required. Inquiries pertaining to an individual's program of studies shall be referred to the appropriate academic or faculty advisor. It is the student's responsibility to meet all graduation requirements.

Students who are eligible for graduation must file an *Application for Final Evaluation* in the Office of the Registrar according to the following schedule: **by October 1 for the following June; June 1 for the following January; March 1 for the following August graduation.**

Prior to in-person registration for the final semester, the student will be mailed a copy of the final evaluation listing requirements that must be completed in order to meet the intended date of graduation/certification. Students who wish to confirm receipt of the *Application for Final Evaluation* by the Office of the Registrar should consult the list posted outside the office during the month immediately following the filing deadline.

Baccalaureate degree candidates who have been evaluated for New Jersey Teaching Certificates must complete the *Application for Certification* and pay the required fees in the Office of the Registrar during the following periods: **March 15 to April 15 for June graduation: October 15 to November 15 for January graduation; July 1 to August 1 for August graduation.**

Effective October 15, 1985, the New Jersey State Board of Education requires candidates for *instructional* certificates to take sections of the National Teacher Examination or, in some cases, the Graduate Record Examination, and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Admissions and Retention, AA003.

Final Examinations

Final examinations and evaluations are generally of a comprehensive nature covering the semester's work, but the form, determined by the nature of the course subject matter, varies with individual professors and classes. A schedule of final examinations is found in the Schedule of Courses booklet each semester.

Final examinations are weighted in relation to other evaluations which are made throughout the semester and do not replace periodic tests and other means of measuring student progress.

Grades and Standards

There are ten grades used at Montclair State College:

A	Excellent	**IN**	Incomplete
B	Good	**WD**	Withdrew
C	Fair	**NC**	No Credit
D	Poor	**AU**	Audit
F	Failure	**P**	Pass

All Basic Skills courses, whether they carry credit toward graduation or not, do not contribute to the grade point average.

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal; or (3) withdrawal after the midpoint in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The grade "IN" is intended to indicate that the student has not completed the course and that a grade is being withheld until the work is performed and approved. Students must enter into a formal contract with the faculty prior to the end of the semester, using the form available in the Office of the Registrar. The "IN," if not replaced with a final grade by May 1st for Fall and Winter incompletes and December 1st for Spring and Summer, will become an "F." Exceptions can be granted only upon petition to the appropriate School Dean.

A change of grade request from other than an "IN" grade, must be processed by faculty and approved no later than the end of the next full semester following the semester in which the grade was earned.

Graduation Honors

Undergraduate students who have completed a minimum of 60 undergraduate credits at Montclair State College are recognized for academic honors. An "A," "B," "C," or "D" must be received for a minimum of 48 of these 60 credits.

Academic honors are awarded as follows:

Average of 3.45 – 3.64 cum laude
Average of 3.65 – 3.84 magna cum laude
Average of 3.85 – 4.00 summa cum laude

An honors diploma will be awarded in addition to the regular diploma. A period of 3-4 months should be allowed for verification of cumulative average, printing, and mailing. However, the honors notation will appear on the official transcript after graduation.

Honors List

The Academic Honors List, issued after the close of each semester by the academic deans, gives recognition to students with a 3.50 or higher semester grade point average (GPA). A minimum of 12 credits must be earned in courses that contribute to the GPA.

Independent Study

Montclair State College offers opportunities for students to undertake academic credit on an independent study basis. Students who wish to register for courses on an independent study basis must obtain an "Independent Study Application" form from the Office of the Registrar. This form must be completed in full and approved by the instructor and the department chairperson prior to registration.

One copy of this form is to be retained by the student. One copy is to be submitted to the department chairperson, one copy remains with the instructor and the original must be submitted at the time of registration, along with a registation form.

All courses which are approved to be taken on an independent study basis must also be listed on the registration form. The full course number (except reference and section numbers) is required.

Leave of Absence

Full-time undergraduate students in good academic standing (minumim cumulative grade point average, 2.00) may take a leave of absence of one or two semesters by arrangement through the Academic Advising and Tutorial Center located in Building E.

Students who take a leave are guaranteed re-admission if they file with the Office of Admissions an application for re-admission by August 1 for the fall semester and December 1 for the spring semester. Upon termination of the leave period, students are no longer guaranteed reinstatement and must follow normal readmission procedures if they wish to attempt to return to college.

Major Declaration

Undeclared majors should declare a major by the time they have earned 58 semester hours. Students are expected to complete the major for which they apply within the normal number of semester hours required for completion of the degree program. For most undergraduate degree programs, this is 128 semester hours; however, certain programs require more than 128 semester hours. Students may accrue more than the number of credits usually required for completion of the degree as a result of changing majors but will not be permitted to accrue additional credits for the purpose of establishing additional majors or minors. Students expecting to establish additional majors or minors beyond the normal number of credits required for completion of the degree are required to obtain permission from the Director of Academic Advising. Students may not declare additional majors or minors after they have applied for final evaluation for graduation.

Pass/Fail Grading

1. Available to Montclair State College Undergraduates Only. All Montclair State College undergraduates are eligible to select one course per semester for which they are registered for pass/fail credit, not to exceed 24 semester hours in the degree program.
2. Eligible Courses: Only those courses which are free electives in the students program. The purpose of this option is to encourage students to explore unfamiliar areas of study without concern for the effect on academic standing.
3. Courses offered on a pass/fail basis only will not preclude the student from also taking an additional course on a pass/fail option.
4. Grading: Students will receive either a grade of "P" (pass) or "F" (fail) for course work completed under the option. A grade of "P" does not affect the student's average; however, a grade of "F" will have the same effect as a traditional failure.
5. Not Rescindable: This application is final; students will not be permitted to rescind the pass/fail option. Students should know that letter grades will not replace "P"s if changing majors, attending graduate school, for certification or other colleges requiring letter grades.

Procedure:

Any student electing the pass-fail option must complete a "Pass/Fail Application" and return it to the Office of the Registrar prior to the end of the third week of classes for regularly scheduled courses or its equivalent for short term and summer courses.

Plagiarism

All papers, reports and research submitted by students shall be their own except as properly annotated. The copying or imitating of others' work is plagiarism. A student guilty of plagiarism may be subject to dismissal.

Registration

General course selection for incoming students at Montclair State College is accomplished through an advanced registration procedure. Students will receive registration materials in their departments or through the mail and should return them properly completed to the Office of the Registrar. Since the master schedule is developed and administered through a series of data processing steps, students are urged to read registration materials thoroughly before completing registration forms. Declared students should consult their faculty advisor while undeclared students should contact the Academic Advising Center, Building E, for assistance with this activity.

Repeated Courses

A student should repeat a failed course as soon as possible.

To repeat a course at student must register, make payment for that course and file a Repeat Course card with the Office of the Registrar. There is no special approval required to repeat a course in which a grade of "F" was received. A course repeated at another institution does not remove a "D" or "F" at Montclair State College.

A student must repeat a failure if the course is required for graduation. When a course has been repeated both the original and subsequent courses are included on the permanent record, but the credit is counted only once. The grade received in the repeated course becomes the official final grade. Generally, students may not repeat courses in which grades of "D" were received. A student may repeat a sequential course in which a grade of "D" was received with the approval of the department chairperson in which the course was taken as well as approval of the Vice President for Academic Affairs, providing permission is obtained prior to registration. Only the first half of a sequential course with a grade of "D" may be repeated and shall be done prior to taking the second half. The regulations for failed courses also apply to a repeated course in which a grade of "D" was received. Courses in which the student received grades other than "D" or "F" cannot be repeated. Repeated course forms are available in the Office of the Registrar, C-204.

Residence Requirements

A minimum of 32 credit hours of the total required for the baccalaureate degree must be completed at Montclair State College. The final 24 credit hours required for graduation must be taken at Montclair State College and cannot be acquired through transfer.

Any student who transfers from another institution with advanced standing in a major field of study is required to complete a minimum of twelve credit hours of upper level course work in the major at Montclair State College. Some curricula may require more than this minimum.



Retention Standards

All undergraduate students whose cumulative grade point average (GPA) or previous semester GPA is below 2.00 are automatically on probation. Full-time undergraduates are expected to earn an average of 12 semester hours per semester of attendance.

Students are subject to non-retention if the cumulative GPA is below minimum retention for the number of semester hours earned. Semester hours earned include all courses passed at Montclair and any credits earned through transfer, credit by examination or assessment. First semester freshmen and first semester transfers falling below retention are automatically given a semester of probation before furlough, suspension or dismissal.

	Total Semester Hours Earned		
	0-57	*58-89*	*90 plus*
Minimum Retention	1.60	1.80	2.00
Academic Furlough	1.40-1.59	1.60-1.79	1.80-1.99
Academic Suspension	1.00-1.39	1.20-1.59	1.40-1.79
Academic Dismissal	0-.99	0-1.19	0-1.39

Furlough

Academic furloughs are given to students whose cumulative GPA is below retention (not more than 0.20 below) and/or are not making satisfactory progress for the degree. When a student is on academic furlough, he or she may not take course work at Montclair State.

Students given an academic furlough are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the Academic furlough. Readmission is automatic.

A student who is readmitted from academic furlough is given two semesters to raise the cumulative GPA to retention level and make satisfactory progress towards the degree. If the student does not perform at a 2.00 level the first semester back or is not at retention level after two semesters, the student is given an academic dismissal.

Suspension

Academic suspensions are given when a student's cumulative GPA is below retention level and/or is not making satisfactory progress for the degree. When a student is on academic suspension, he or she may not take course work at Montclair State.

Students given an academic suspension are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the academic suspension. Readmission is not automatic. It is based on the probability of success in the chosen major and upon the space available at the time.

Retention requirements after readmission from academic suspension are the same as those listed above for academic furlough.

Dismissal

Academic dismissals are given to students whose cumulative GPA is more than 0.60 below retention level or to students who have returned from furlough and suspension and did not achieve at a suitable level. A student placed on academic dismissal is not eligible to return to the College.

Standards for Formal Written Work

Most courses at Montclair State College require written assignments, because writing is one of the best ways to explore, refine, and demonstrate knowledge. The following statement describes the mental operations and the writing skills that the faculty expects in your *formal* written work. (You should assume that an assignment requires formal preparation unless your instructor states otherwise.) The Freshman Composition course provides a solid foundation in these abilities, but that is only the beginning. The written work that you do in all your courses will build on the foundation established in Freshman Composition, developing your ability to think and to communicate your thoughts in writing.

In the academic world, as in the world at large, readers will judge your written work primarily on the basis of its content; that is, on the quality of the information and opinions it contains. However, the careful organization and the clear, concise expression of that content are essential if your readers are to grasp your full meaning. The faculty will therefore evaluate the organization and expression of your written assignments along with the content. Grammar, mechanics, and appearance will also be considered, because problems in these areas can interfere with readers' comprehension of your work, or even prevent them from giving it their serious attention.

Individual departments and instructors may add their own requirements to this statement, and each instructor will decide how the various elements will influence grading in a particular course. However, in the course that you will take to satisfy your graduation requirement in writing, you will be given a grade of Incomplete and referred to the Writing Workshop if your writing has severe problems. This will apply regardless of the average grade of any other work done in that course.

If you have questions about this document, you may seek clarification from your instructors, from the English Department, or from the Writing Workshop staff. The Writing Workshop offers consultation and tutorial help to all students on a drop-in basis (313 Partridge Hall, 893-7442, 893-4249). There is no charge for this service.

Writing and Thinking

You should be able to perform with college-level competence the mental operations on which written work depends. These include:

- **Generalization:** Finding the common element that relates particular examples or instances to each other; abstracting.
- **Inference:** Drawing out meanings that are implied but not stated explicitly; reading between the lines.
- **Analysis:** Examining parts of the whole, such as causes, effects, and processes.
- **Synthesis:** Forming ideas into new relationships; creating.
- **Evaluation:** Making judgments according to criteria.

You should be able to apply to new situations the knowledge you have gained from your classes, your reading, and your investigations.

You should be able to draw your own conclusions, rather than simply to restate or summarize the ideas of others.

You should be able to state a thesis clearly and support it with reasoning and evidence.

You should be able to organize the parts of a paper in an orderly sequence, governed by a controlling purpose that is clear to the reader. Paragraphs and subsections should also have their own internal order.

You should be able to adapt what you write to the needs and expectations of your intended audience, whether it is your peers, your teacher, other scholars in a discipline, or the general public.

The Writing Process

Successful writing is seldom merely the recording of the writer's first thoughts. More often it is the result of a process involving several stages. You should know how to use strategies that will help you to:

- Choose and limit a topic
- Collect information
- Develop ideas
- Produce rough and polished drafts
- Revise and edit
- Proofread

Library Research and Documentation

You should be able to find and use materials published in various forms, including books, periodicals, newspapers, government documents, abstracts, microforms and recordings.

You should be able to summarize or paraphrase the written work of others. Paraphrased material must be completely restated in your own words, and should blend smoothly into your style.

You should be able to identify your source material according to the method your instructor requires. Data or distinctive ideas taken from sources must be identified by a footnote or some other form of citation, *even if those ideas are not quoted directly.* Direct quotations must be identified by a citation as well as by quotation marks or block indentation.

Failure to treat source material properly may be construed as plagiarism, a serious academic offense. (see Plagiarism under Academic Policies and Procedures.)

Standard English, Grammar, Style

Your papers should be written in formal, standard English. They should be free of nonstandard constructions (such as double negatives) and of informal usage (such as "The experiment went O.K.").

Your sentence structure should be free of major grammatical problems, such as sentence fragments, subject-verb disagreement, inconsistent verb tenses, unclear pronoun reference, and misplaced modifiers.

Your sentences should be clear and concise, showing capable use of the tools necessary to a mature writing style, such as coordination, subordination, parallelism, and transitional devices.

Your choice of words should be precise and appropriate to your subject. You may sometimes find it essential to use technical terms, but you should always avoid unnecessary jargon.

Mechanics and Appearance

Your papers should contain no errors in spelling, punctuation, capitalization, or typing.

You should show careful attention to matters of appearance, including legibility, neat corrections, and suitable presentation.

The use of a word processor is encouraged, provided that the printout is easily readable.

If your instructor does not specify how you are to present your paper, you may follow these recommendations:

Use a cover sheet that includes:

- your name
- the title of the paper
- the title and section number of the course
- the name of the instructor
- the date

Make margins at least one inch all round.

Number the pages.

If possible, type your formal papers.

- Use standard typing paper: 8 ½ x 11 inch, white, medium weight.
- Use dark typewriter ribbon. Keep the keys clean.
- Double space.

If you cannot type your paper or have it typed, make sure that your writing or printing is legible.

Make corrections neatly. Use an eraser, correction tape, or correction fluid. If you discover an error at the last minute, make a neat correction right on the paper.

Student Responsibility

The College expects students to assume responsibility for knowing and meeting the various regulations and procedures set forth in the College catalogs and in the schedule of courses booklet published each semester. The College reserves the right to terminate the enrollment of any student whose conduct, class attendance, academic record or financial obligation should prove unsatisfactory.

Student Rights

The Family Education Rights and Privacy Act of 1974 (Buckley Amendment) permits the College to release directory information about a student unless the student specifically requests that this information be withheld. Students who do not wish directory information to be released should notify the Office of Vice President for Student Affairs within the first two weeks of each semester.

Transcripts

To obtain a transcript, students must complete a transcript request form, available through the Office of the Registrar. A fee of $2.00 per copy is payable in advance to Montclair State College. If more than 5 student copies are requested, a maximum of $10.00 will be charged for no more than 10 student copies ordered at one time. If more than 5 official copies are requested, a maximum of $10.00 will be charged with no maximum on the number of transcripts ordered; however, a separate transcript request form must be completed at the same time for each request. Please allow 10 working days for processing of all transcript requests. Additional time should be allowed for transcripts processed at the conclusion of each College session.

Transcripts will not be released for students who have an obligation (i.e., financial, library, parking, loan, etc.) to the College.

Transfer Credit

MSC undergraduate students who wish to take courses at another institution and transfer the credits to MSC must complete the form "Request for Work at Another Institution" available in the Office of the Registrar prior to enrollment in the course(s) they wish to transfer. All accepted credits will be listed, without grades, on the student's permanent record. Grades earned at other institutions are not included in cumulative average. However, transfer credit hours are used in determining the student's class level.

All specific requirements for the degree must be completed even though this may involve more than that expected by the student at the time of transfer. Courses with grades of "D" or "F" are not accepted for transfer credits.

Transfer Credits

Non-Accredited Institutions

To receive evaluated credit from an institution licensed by a state to grant degrees but not regionally accredited:

1. in the first semester, a full-time student shall earn a minimum of 12 semester hours with a minimum grade point average of 2.00.
2. a *part-time* student shall earn a minimum of 12 semester hours in the first 14-15 semester hours attempted and with a minimum cumulative grade point average of 2.00.

Undergraduates in Graduate Courses

MSC seniors within 16 semester hours of completing the baccalaureate degree requirements, who possess at least a 2.67 grade point average and have taken all required prerequisites, may apply to take up to 6 hours of 500 level courses for either undergraduate *or* graduate credit, if prior permission is granted. A graduate course taken for undergraduate credit *cannot* later be included in a graduate degree program. If courses are taken for graduate credit, graduate tutition and fees will be charged. Appropriate forms are available at the Office of Graduate Studies.

Admission of an undergraduate to a graduate (500 level) course does not imply future acceptance into any graduate program. That can only be done by a separate admission process. Those planning to matriculate in graduate programs at the College should refer to the Graduate Catalog for specific admission requirements.

Veterans

The Office of Veterans' Affairs provides information and advice to students regarding federal and state Veterans' benefit programs. All veterans who enroll at the College should contact the office as early as possible in their academic program. Benefits are not available for audited courses. Any change in student status must be reported to the Office of Veterans' Affairs in writing.

All veterans who completed a minimum of six months active duty are eligible to receive three elective credits, one of which fulfills the one semester physical education requirement. Applications to receive these credits are available from the Veterans' Office.

All Veterans must submit a copy of their discharge papers to the Office of Veterans Affairs, Annex E. Telephone: (201) 893-5180, 4461.

Waivers and Credit Adjustments for Freshman English

The following policies apply to students entering as freshmen or as transfer students beginning in Fall 1988.

To obtain waivers or credit adjustments for Basic Composition, Freshman Composition, and Introduction to Literature, students must see the Freshman English Coordinator.

Waivers of Freshman Composition, with or without credit, must be completed before the end of the sophomore year for students who enter the college as freshmen. Transfer students must complete these waivers by the end of their first semester of attendance.

I. Waiver of Requirement *without* Credit
   A. For Freshman Composition (satisfies the Communication Requirement in Writing)
      Submit an acceptable research paper demonstrating college-level skills in both writing and research. (Students must first qualify to take Freshman Composition by achieving the appropriate score on the New Jersey College Basic Skills Placement Test.)
   B. For Introduction to Literature (satisfies the Communication Requirement in Reading)
      Score 3 or higher on the ETS Advanced Placement Examination in English. The Communication Requirment in Reading is waived, and the student has the option of taking Introduction to Literature *or* another course in English or American literature.

II. Waiver of Requirement *with* Credit
   A. For Freshman Composition: Waiver of the Communication Requirement in Writing and award of 3 credits.
      1. Score 3 or higher on the ETS Advanced Placement Examination in English. Submit an acceptable research paper demonstrating college-level skills in both writing and research.
      2. Score 500 or higher on the ETS College Level Examination Program (CLEP) General Examination in English. Submit an acceptable research paper demonstrating college-level skills in both writing and research. (Students must first qualify to take Freshman Composition by achieving the appropriate score on the New Jersey College Basic Skills Placement Test.)
   B. For Introduction to Literature: Waiver of the Communication Requirement in Reading and award of 3 credits.
      Score at or above the 50th percentile on the ETS College Level Equivalency Program (CLEP) Examination in Analysis and Interpretation of Literature.

Withdrawal from Courses

Students who wish to withdraw from courses must complete the withdrawal form or send a written notice to the Office of the Registrar. (Notification to the instructor or a "Stop Payment" of a check does not constitute an official withdrawal from the College.) Upon receipt of the withdrawal notice, student will be given or sent acknowledgement. Any student who fails to receive such acknowledgement within two weeks should immediately notify the Office of the Registrar. Withdrawals are computed from the date of receipt of the written notice or from the date of the U.S. postmark for those received through the U.S. mail. Students who do not submit a written notice will receive the mark of "F" in those courses which they cease to attend. See the current Schedule of Courses booklet for deadline dates.

Withdrawal from College

A full-time undergraduate student wishing to withdraw from the College must complete an official withdrawal form obtained in the Academic Advising Center. If the student is a minor, the signature of a parent or guardian is required on the withdrawal form. Strict adherence to the withdrawal procedure is necessary for possible readmission.

Special Withdrawal Procedure

Students who find it necessary to withdraw after the midpoint of the semester for medical reasons or personal emergency must petition the Registrar in writing, and provide supporting documentation.



Requirements for the Undergraduate Degree

The academic program of this College has been designed to provide each student with an in-depth experience in a major program, a sequence of courses to develop basic communication skills, and a series of general education courses to expose the student to the breadth and methods in the various fields of human knowledge. The structure of the general education program is designed to provide the best comprehensive liberal arts education for all students.

The following pages provide a description of the degree program requirements, an outline of the general education program required of all students, and a description of the teacher certification sequence for those students who choose to take that option.

These requirements are basic and should be a major part of the first two years of a student's undergraduate program. Departmental curriculum guides provided for your major course sequence should also be consulted.

In addition to the requirements stated above, the Board of Higher Education has mandated that a series of Basic Skills Tests be administered to all incoming students. If the student is found to have deficiencies in the areas of reading, writing, or basic mathematical skills, remedial courses are required and the student is expected to meet minimum standards during the first year of attendance at the College.

General Education Requirement ..... 34-58 Semester Hours

B.A./B.S. ..... 58 Semester Hours
B.F.A./B. Mus. ..... 34 Semester Hours

Major Field ..... 33-82 Semester Hours

Graduation Requirement in Writing

Electives ..... 12-37 Semester Hours

Minorities Culture Requirement (one course)
Minimum number of semester hours required for graduation ..... 128 Semester Hours

Teacher certification requirements involve use of 27-28 semester hours of the electives. Some teacher certification and other major programs require completion of more than 128 semester hours prior to graduation. For details on specific programs, consult the academic programs section of this catalog and the program worksheets obtained from the College academic advisor or faculty advisor. General information on teacher certification may be found in the program outlined by the department of Curriculum and Teaching in this catalog.

General Education Requirement (GER)

The General Education Requirement at Montclair State College is among the most comprehensive in area college and universities. On completion of the requirement, one will enjoy the benefits of the best of the traditional liberal arts curriculum: facility in a foreign language, a sense of history, a perspective on social sciences, a familiarity with the humanities and art, and an understanding of mathematical and scientific principles and some of their contemporary applications. Beyond these traditional areas, one will have had the opportunity to study a major non-Western culture and several non-Western literary masterpieces. At least one important contemporary issue will have been examined in depth, and an introduction to computers will have been provided.

The courses taken to fulfill this requirement are designed to impart not merely information, but techniques of problem solving and analytical thinking. Primary readings in the work of classical thinkers and substantial writing assignments will be featured in nearly every course. Whenever possible, professors will show how several academic disciplines bear on a single problem or topic.

The General Education Requirement dedicates some of the major resources of the College to the benefit of introductory students. Combining the strength of the liberal arts curriculum with a contemporary approach to social and technological change, it supplies a valuable balance to any major program.

The following General Education Reguirements apply to full-time freshman and part-time students who began their studies at Montclair State College in Summer/Fall, 1983 or thereafter and transfer students entering the College in Fall 1985. These requirements are subject to change. Periodic visits to your faculty advisor or College academic advisor are strongly recommended to avoid difficulties in meeting graduation requirements.

Bachelor of Arts and Bachelor of Science

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

See General Education Requirement, Appendix of Courses, in this section of the catalog for specific courses that fulfill requirements within the GER categories listed below.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for these purposes, except that courses in a student's major department may not be used to satisfy the "General Education Electives" requirement described in section J below.

A. Communication — 9 Semester Hours

Writing

A course in composition which will help develop the ability to express oneself clearly, to convey information fully and concisely, to persuade others effectively in standard written English, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading

A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course is designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening

A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues 3 Semester Hours

An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts:

Art Appreciation 3 Semester Hours

A course in the inherent styles and qualities of a particular art form, designed to provide familiarity with important masterpieces in an historical and stylistic context, an understanding of the processes involved in creating art, and an ability to recognize and appreciate excellence.

D. Foreign Language 6 Semester Hours

A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.

Note: Placement examination is required. Any student who is released from part or all of the foreign language requirement must take either a three credit course in Linguistics or an advanced foreign language course.

E. Humanities 6 Semester Hours

1. World Literature or General Humanities: 3 Semester Hours

World Literature

A course in major works of world literature from Western and non-Western literary traditions. Taking the course will provide you with an expanded awareness of national and international cultural concerns, as well as a heightened sensitivity to literature.

General Humanities

An interdisciplinary course in General Humanities with emphasis on the great questions which have concerned and inspired artists and thinkers through the ages. The course will provide you with greater knowledge of the range of humanistic achievement in several areas of creative enderavor, and a deeper understanding of the values of different civilizations.

2. Philosophy/Religion: 3 Semester Hours
   A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics 5 Semester Hours

1. Mathematics: 3 Semester Hours
   A course in mathematics as a tool of scientific investigation and as a significant part of our heritage, stressing an appreciation of mathematics as a tool for problem solving and analysis, and a greater ability to think precisely and logically.
2. Computer Science: 2 Semester Hours
   A course illustrating the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy.

G. Natural/Physical Science 7 Semester Hours

1. Laboratory Science: 4 Semester Hours
2. Non-Laboratory Science: 3 Semester Hours
   Two courses in natural/physical science, at least one with a laboratory component. The courses are designed to provide the ability to appreciate and utilize the scientific method. Selected findings in a particular field, the methods employed to obtain them, their historical and contemporary significance, and some of the applications will be emphasized in each course.

H. Physical Education 1 Semester Hour

A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science 12 Semester Hours

1. American or European History: 3 Semester Hours
   A course in American or in European History. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide the perspectives on the influence of the past in shaping contemporary conditions.
2. Non-Western Cultural Perspectives: 3 Semester Hours
   A course in the culture or civilization of indigenous peoples in Africa, Asia, or the Americas. Completing this requirement will provide important insights into the development of cultures not influenced in their formative stages by Western civilization.
3. Social Science (other than History): 6 Semester Hours
   Each student will take one survey and one topic course.
   a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.
   b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.

   Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance in understanding ourselves, our society, and the world.

J. General Education Electives 6 Semester Hours

1. GER approved courses (other than Physical Education)
2. General introductory courses at the 100-level or 200-level in any department in the schools of Fine and Performing Arts, Humanities and Social Sciences, and Mathematical and Natural Sciences.
3. Courses in the areas of Creative Expression and/or Personal/Professional Issues

Creative Expression

An elective course in the creative process in a particular art form. A creative expression course will afford the opportunity to be personally involved in a creative activity and gain insights into both the technical difficulties and the creative choices which artists face. One should develop not only a lifelong appreciation of the arts, but also remain an active participant.

Individual and Professional Issues

An elective course in personal or professional development. Taking one of these courses should provide a better understanding of oneself, teach one how to interact with others more effectively, or gain a more developed perspective on career choices.

Note: General Education Electives must be taken outside the student's major.

Bachelor of Fine Arts and Bachelor of Music

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

See General Education Requirement, Appendix of Courses, in this section of the catalog for specific courses that fulfill requirements within the GER categories listed below.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for these purposes.

A. Communication 9 Semester Hours

Writing

A course in composition which will help develop the ability to express oneself clearly, to convey information fully and concisely, to persuade others effectively in standard written English, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading
A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course is designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening
A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues 3 Semester Hours
An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts: Art Appreciation (Not Applicable)

D. Foreign Language 6 Semester Hours
A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills; increased cultural understanding. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.

Note: Placement examination is required. Any student who is released from part or all of the foreign language requirement must take either a three credit course in Linguistics or an advanced foreign language course.

E. Humanities 3 Semester Hours
Philosophy/Religion
A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics 2 Semester Hours
Computer Science

A course in the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy, i.e., the ability to perform basic tasks in a standard computer language.

G. Natural/Physical Science 4 Semester Hours
Laboratory Science

A course in natural/physical science with a laboratory component. The course is designed to provide the ability to appreciate and utlize the scientific method. Selected findings in a particular field, the methods employed to obtain them, their historical and contemporary significance, and some of the applications will be emphasized in the course.

H. Physical Education 1 Semester Hour
A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science 6 Semester Hours
1. American or European History: 3 Semester Hours

   A course in American or in European History. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide the perspectives on the influence of the past in shaping contemporary conditions.

2. Social Science (other than History): 3 Semester Hours

   A course in social sciences other than history.

   a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.

   b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.

   Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance an understanding ourselves, our society, and the world.

J. General Education Electives (Not Applicable)

Major Field

Since one of the main purposes of an arts and science program is to give the student a broad general education, requirements for an arts and science major are generally limited to 33-82 semester hours. Requirements for major programs vary; a number of these major programs have "tracks" or concentrations. For details on specific programs, consult the academic programs section of this catalog and the program work sheets prepared by the College academic advisor or faculty advisor.

Free Electives

Students may fulfill their remaining credits for a minimum of 128 semester hour degree requirements through the selection of any other courses. Students may also choose a minor in a field by taking the appropriate course work as part of their free electives. They may also use electives to meet the teacher certification requirements.

Minorities Culture Requirement

The purpose of the Minorities Culture Requirement is to ensure that all graduates of MSC be acquainted with the life, history, and cultural contribution of a group recognized by the larger society as constituting a disadvantaged subculture in the U.S.* Even though women do not represent a statistical minority, they have shared "minority" status and are considered as part of the group recognized by this requirement.

*Race and ethnicity as defined by the Equal Employment Opportunity Commission

1. Blacks
2. Hispanics
3. American Indians or Alaskan Natives
4. Asian/Pacific Islanders

The following is a listing of the courses which meet this requirement. Certain of the courses listed below may simultaneously be used to meet the General Education Requirements and/or the Human and Intercultural Relations Requirement for Teacher Education, *if they are included on the approved list* of these courses.

C	2204 215	The Economics of Social Problems
E	0506 332	Minorities in Business
G	1003 220	Art in Non-Western Societies
G	1003 275	Afro-American Art
G	1003 458	Traditional Arts of Sub-Saharan Africa
H	1005 150	Influence of Afro-American Culture on Music
H	1005 209	Introduction to Jazz
H	1005 309	The Art of Jazz
I	1008 345	Dance Techniques-Ethnic
J	2202 100	Cultural Anthropology
J	2202 200	Urban Anthropology
J	2202 206	Human Variation
J	2202 301	Peoples of Africa
J	2202 302	Native Latin Americans
J	2202 305	Native North Americans
J	2202 307	Ethnology of Southeast Asia and Oceania
J	2202 311	Anthropology of American Subcultures
J	2202 415	Women in Traditional Society
K	4903 186	Myths and Images of Women in French Literature
K	4903 381	Africa in Classical Antiquity
K	4903 383	Women in Antiquity

K	4903 399	Development of Black Thought
M	1501 238	Afro-American Writers
M	1501 294	Women Poets
M	1503 366	African Myth and Literature
N	0308 100	The Many Worlds of Latin America: Interdisciplinary Perspectives
N	2206 206	Introduction to American Urban Studies
N	2206 301	Urban Field Studies
N	2206 308	Land and Life in Latin America
N	2206 313	Urban Geography
P	2205 108	Introduction to African Civilization
P	2205 114	Early Latin American Civilization
P	2205 115	History of Puerto Rico
P	2205 131	Introduction to Indian Civilization
P	2205 132	Introduction to Chinese Civilization
P	2205 133	Modern Chinese Civilization
P	2205 205	Minorities in American History
P	2205 215	Women in American History
P	2205 217	History of Black Americans
Q	1505 255	Women and Language
R	1509 237	Oriental Philosophy
R	1599 210	Religions of the North American Indians
R	1599 212	Oriental Religions
R	1599 267	Women in Religion
S	2207 214	Women in Politics
S	2207 308	Ethnic Politics in America
S	2207 402	Government and Politics of Africa
S	2207 403	Government and Politics of China and Japan
S	2207 404	Government and Politics of India and South Asia
S	2207 405	Government and Politics of Latin America
S	2207 411	The Politics of Race
T	2001 102	Women's Worlds
T	2001 231	Psychology of Aggression
T	2001 246	Psychology of the Black Experience
T	2001 265	Psychology of Women
T	2001 345	Mental Health Issues of Hispanic Americans
U	2208 202	Racial and Ethnic Relations
U	2208 205	Black Family
U	2208 311	Urban Sociology
U	2208 315	Social Stratification
U	2208 430	Sociology of Sex Roles
V	1105 270	Spanish-American Cultural History*
V	1105 280	Cuban Cultural History*
V	1105 360	Hispanic Community Program*
V	1105 472	Puerto Rican Literature and Thought*
V	1105 475	Seminar on Hispanic Culture in the U.S.*
1	0829 412	Field Work in Urban Education
1	0829 423	Teaching in Urban Schools
2	0826 481	The Legal Rights of Women
3	0821 264	Sexism in American Education
3	0821 445	Puerto Rican Children in Mainland Schools
4	0840 355	Media in Intercultural Communication
6	1301 205	Women in Contemporary Society
6	1305 445	The Inner City Family
9	2220 102	Women's Worlds

*Taught in Spanish

College Writing Requirement

Written work is an important part of the College curriculum because writing offers students the opportunity to think deeply and searchingly about their subjects and because skill in written expression is crucial to the welfare of both individuals and society. The College policy regarding written work includes the following requirements and provisions:

1. The document "Standards for Formal Written Work," which is published in this catalog and available from all academic departments, outlines in a general way the College's expectations concerning the content, organization, and format of written assignments. These provisions may be supplemented by departmental writing policy statements or by those of individual instructors.
2. As part of the General Education Requirement, each student must satisfy the communication requirement in writing, usually by taking Freshman Composition.
3. Writing is an important part of course requirements throughout the College (*minimum:* 1,500 to 2,000 words per course). This work may take such forms as essay examinations, research papers, laboratory reports, critical essays, and so forth.
4. All students must satisfy a graduation requirement in writing. Each department must evaluate the writing ability of its majors by means of a required course (or choice of courses) with substantial writing assignments. Normally this course should be taken in the junior year. Students with serious writing problems will be referred to the Writing Workshop and may not graduate until those problems have been eliminated. Students should consult their College academic advisor or major department chairperson regarding this course and other aspects of the department's writing policy. See list below.
5. The Writing Workshop (Partridge Hall, Room 313) offers consultation and tutorial help to all students with writing problems. There is no charge for this service.

Courses Satisfying the Graduation Requirement in Writing

Accounting, Law and Taxation

D 0503 463 Administrative Research Methodology and Analysis

Anthropology

J 2202 203 Anthropological Linguistics

Biology

W 0401 416 Genetics Laboratory Investigation

Business Education and Office Systems Administration

Accounting and General Business Education
Comprehensive Business Education
Secretarial and General Business Education
Office Systems Administration

B 0845 320 Business Communications

Distributive Education and General Business Education
Retail Merchandising and Management

B 0844 307 Retail Store Merchandising and Management

Chemistry

X 1905 343 Experimental Physical Chemistry
X 1905 495 The Chemical Literature

Classics

K 4903 281 Greek Civilization

Latin

K 1109 201 Latin Literature of the Republic
K 1109 202 Latin Literature of the Golden Age
K 1109 203 Latin Literature of the Silver Age
K 1109 204 Latin Literature of the Middle Ages

Communication Sciences and Disorders

L 1220 464 Psychology of Oral Communication

Economics

B 0845 320 Business Communications

English

M 1501 226 Literature of the American Renaissance
M 1501 234 American Drama
M 1501 238 Afro-American Writers
M 1501 240 English Literature I: Beginnings to 1660
M 1501 241 English Literature II: 1660 to Present
M 1501 247 The Augustan Age
M 1501 248 From Sensibility to Romanticism
M 1501 254 English Drama — Beginnings to 1642
M 1501 256 English Novel to 1900
M 1501 324 American Poetry to 1940
M 1501 325 American Poetry: World War II to Present
M 1501 326 Early American Literature
M 1501 336 American Literary Realism
M 1501 337 Modern American Fiction
M 1501 338 Contemporary American Fiction
M 1501 343 Milton
M 1501 344 Chaucer
M 1501 345 Middle English Literature
M 1501 346 19th Century English Romantic Literature
M 1501 347 Victorian Prose and Poetry
M 1501 348 Renaissance Literature
M 1501 353 Shakespeare: Comedies-Histories
M 1501 354 Shakespeare: Tragedies-Romances

M 1501 401 Old English Language and Literature
M 1501 444 17th Century English Poetry
M 1501 446 Irish Renaissance Period Literature
M 1501 455 Restoration and 18th Century Drama
M 1501 456 20th Century English Novel

Environmental, Urban and Geographic Studies
N 2206 309 Research Methods in Geography and Urban Studies
N 2206 310 Quantitative Methods in Geography and Urban Studies

Finance and Quantitative Methods
D 0503 463 Administrative Research Methodology and Analysis

Fine Arts
G 1003 105 Art and Civilization I
G 1003 106 Art and Civilization II

French
O 1102 350 Translation I
O 1102 351 Translation II
O 1102 452 Translation III

General Humanities
K 4903 201 General Humanities I (to 1400)
K 4903 202 General Humanities II (from 1400)

German and Slavic
O 1103 352 German Civilization II

Health Professions

Health Education
5 0837 315 Community Health
5 0837 330 Foundations of Health Education

Allied Health Services
5 0837 315 Community Health
5 0837 455 Core Concepts in the Delivery of Health Care

Physical Education and Health (Dual Certification)
5 0837 315 Community Health

History
P 2205 100 The Study of History

Home Economics
6 1304 270 Individual Management: Theories and Strategies

Industrial Studies

Non-Teacher Education
7 0990 461 Management and Production

Teacher Education
7 0839 302 Principles and Methods of Teaching Industrial Education

Linguistics
Q 1505 230 Phonetics and Phonology
Q 1505 300 Syntax and Semantics I

Management
E 0506 316 Human Resource Management

Marketing
F 0509 442 Marketing Research

Mathematics and Computer Science
Mathematics
Y 1701 335 Elements of Linear Algebra

Computer Science
Y 0701 383 Data Structures

Music
H 1006 307 Music History I

Philosophy and Religion

Philosophy
R 1509 331 Ancient Philosophy
R 1509 333 Déscartes to Kant

Religious Studies
R 1599 401 Philosophical Backgrounds of Western Religion I
R 1599 403 Philosophical Backgrounds of Western Religion II

Physical Education, Recreation and Leisure Studies
Physical Education
8 0835 100 Orientation to the Physical Education Profession
8 0835 352 Development and Philosophy of Physical Education

Recreation and Leisure Studies
8 2103 124 Introduction to Recreation and Leisure Studies
8 2103 322 History and Philosophy of Leisure, Play and Recreation

Physics and Geoscience

Geoscience
Z 1914 434 Stratigraphy
Z 1914 444 Petrology
Z 1914 457 Meteorology

Physics
Z 1902 280 Astronomy
Z 1902 310 Advanced Mechanics
Z 1902 350 Optics
Z 1902 462 Nuclear Physics

Political Science
S 2207 201 Comparative Politics
S 2207 300 Scope and Theories in Political Science

Psychology
T 2001 301 Experimental Psychology

Community Psychology
T 2099 387 Methods in Evaluation Research

Sociology

Current Majors:
U 2208 300 Externship in Sociology
U 2208 410 Social Action Practicum

Beginning with Fall 1985 Freshmen and Fall 1986 Transfer Students:
U 2208 201 Foundations of Sociological Inquiry

Spanish and Italian

Spanish
V 1105 142 Spanish Grammar and Composition II
V 1105 350 Translating I
V 1105 351 Translating II
V 1105 352 Practicum in Translating

Italian
V 1104 142 Grammar and Composition II

Speech and Theatre
Broadcasting
I 0603 140 Writing for Broadcast Media

B.F.A. Dance
I 1008 315 Dance History: Primitive to 1850
I 1008 316 Dance History: 1850 to Present

B.F.A. Acting/Directing, Design/Technical Theatre; B.A. Theatre Teacher Certification
I 1007 208 Play Script Interpretation
I 1007 210 Theatre History: Classical to Elizabethan
I 1007 211 Theatre History: Restoration to Modern

Communication Studies
I 1506 374 Group Processes
I 1506 388 Seminar in Public Relations

Toxicology
W 0426 311 Principles of Toxicology II
W 0401 414 Genetics

Transcultural Studies

World Cultures, Asian Studies, Latin American Studies
P 2205 100 The Study of History

Basic Skills Requirement

1. All students must demonstrate proficiencies in writing, reading, mathematics, and speech which are compatible with the successful performance of college level work. The MSC Basic Skills Requirement provides for the demonstration of such proficiencies through a program of skills assessment and academic development.
2. The New Jersey College Basic Skills Placement Test is Administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date, and registration will not be completed for entering freshman students until the Basic Skills test scores are in. That is, no entering students may expect to receive a first semester class schedule until he or she has taken the NJCBSPT or had the NJCBSPT scores transferred to the MSC Basic Skills Office from a college previously attended. Transfer students may be required to present verification of upper class standing to the Basic Skills Office prior to receiving a class schedule.
3. The Basic Skills requirement in Reading, Writing, and Mathematics may be fulfilled by achieving satisfactory scores on the appropriate sections of the NJCBSPT.
4. Students receiving low scores on the various sections of the NJCBSPT will have credits added to the number of semester hours required to graduate. Developmental courses in reading, writing and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT.
5. Students are expected to take required developmental courses during their semester at MSC and *must* satisfactorily complete these courses within the first year of enrollment (full-time students) or within two years of enrollment (part-time students). No student may withdraw from a developmental course, and any student will be dismissed from MSC who does not satisfactorily complete the required developmental course(s).
6. Since the Mathematics Department has Basic Skills prerequisites for all of its courses, students will not receive credit for any mathematics course if the Basic Skills requirement has not been satisfied.
7. The MSC Basic Skills requirement in Speech must be fulfilled within a student's first 58 semester hour credits by:
   A. Satisfactory completion of the Speech Communication Requirement.

   OR

   B. Successful Speech Placement/Waiver evaluation:
   Application for this examination can be made in early October or early February at the Department of Speech and Theatre. Passing the examination *does not* grant semester hour credit, only satisfaction of the Speech requirement.
8. All questions about Basic Skills should be addressed to the Basic Skills Office, Richardson Hall, Room 207, telephone (201 893-4476).

Teacher Education Program

The Teacher Education Program at Montclair State College reflects a balance between a liberal education and professional preparation. The program combines general educaton, subject-matter (major) specialization and professional training. The professional component addresses four broad areas: the curriculum, student development and learning, the classroom and the school, and effective teaching skills. Special emphasis is placed upon the research findings related to effective teaching. The specific objectives of the program are described in the *Teacher Education Handbook*, which may be obtained in the department of Curriculum and Teaching. The requirements for teacher certification are subject to changes in state regulations and college policy. Although students will be notified of program changes, they should regularly consult with departmental and education advisors as well as the Office of Teacher Education in Room 006 of Chapin Hall, telephone (201-893-4262).

The Teacher Education program provides a sequence of professional courses and field experiences leading to teacher certification upon passing the required National Teacher Examination, while the student majors in a particular field of interest. The graduate is certified to teach in all New Jersey public schools and is legally qualified to teach in other member states of the Interstate Certification Compact.

A. General Education

Students interested in teacher certification complete the same general education program as other students at the College. It should be noted, however, that certain courses meet both general education *and* teacher education requirements. These are noted in the section on the professional sequence below, and are recommended if you wish to complete your program with the minimum number of semester hours.

B. Special Requirements

Students who intend to prepare for teaching should fulfill the following special requirements prior to formal admission to the certification program:

Human and Intercultural Relations Requirement

This requirement focuses on social interaction, intergroup relations, and the culture of minorities in the inner city. A course must be selected from the following list. All of these courses also fulfill the Minorities Culture requirement. Certain courses listed below may simultaneously be used to meet General Education Requirements, *if they are included in the General Education Requirement Appendix of Courses.*

C 2204 215 The Economics of Social Problems
E 0506 332 Minorities in Business
J 2202 200 Urban Anthropology
J 2202 311 Anthropology of American Subcultures
M 1501 238 Afro-American Writers
N 2206 313 Urban Geography
P 2205 217 History of Black Americans
S 2207 308 Ethnic Politics in America
S 2207 411 The Politics of Race
T 2201 246 Psychology of the Black Experience
U 2208 202 Racial and Ethnic Relations
U 2208 205 Black Family
U 2208 311 Urban Sociology
V 1105 360 Hispanic Community Program
1 0829 423 Teaching in Urban Schools
3 0821 445 Puerto Rican Children in Mainland Schools
4 0840 355 Media in Intercultural Communication
6 1305 445 The Inner City Family

Speech Proficiency Requirement — Competence in speech must be demonstrated by completing the course Fundamentals of Speech: Communications Requirement or by passing an examination administered by the Speech and Theatre Department.

Examination in Physiology and Hygiene — This requirement may be satisfied by presenting college study in such areas as biology, personal health problems, community health, school health, family health, health counseling, nutrition or health administration or by taking an examination administered by the State Department of Education.

C. Admission to Teacher Education

All students who intend to prepare for teaching must make a formal application for admission to the teacher preparation program. It is recommended that students apply at the beginning of the second semester of the sophomore year. Application forms may be obtained by interested students from the Office of Teacher Education, School of Professional Studies. The application will be screened by a faculty committee and only those applicants who meet the admission criteria will be accepted.

It is important that a student make the decision to apply for admission to the program (admission to the college is not admission to the Teacher Education program) as soon as possible. If application is made later than the end of the sophomore year, there may be some difficulty in completing the professional sequence in four years.

The criteria for admission are:

1. Three recommendations, at least two from faculty members who know the applicant. One may be a former high school teacher who knows the applicant.

2. Cumulative overall average of at least 2.50 and a cumulative average of 2.50 with no failing grades in the major or in courses in the professional sequence are required for eligibility for student teaching.* (Some departments require a higher major average. Consult your advisor for information.)
3. Speech proficiency prerequisite.
4. Successful completion of prerequisite courses (see below).
5. Successful completion of major course requirements.
6. Evidence of active interest in community affairs and teaching.
7. Approval of a screening committee with representation from the School of Professional Studies and the student's major field.
8. Clearance by the Student Personnel Division.
9. Passage of "Basic Skills Requirement" at the college.
10. A self-rating scale.
11. Any special criteria (e.g., portfolio review, writing sample).

When a student is notified of admission to the program, advisors from the professional education sequence and the major will be assigned who will help the student plan the sequence properly. Further information regarding the process of admission to teacher education can be secured from the Office of Teacher Education.

NOTE: Some probational admissions are made. Consult the Office for information.

D. Professional Sequence for Teacher Education Certification

Five semesters, including the semester of acceptance, are required to complete the professional sequence. This is the general pattern for teacher certification programs. Some require additional methods courses. You are encouraged to consult a departmental advisor early in your program.

FRESHMAN YEAR

*T 2001 100 General Pyschology I: Growth and Development.....3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)

SOPHOMORE YEAR

*T 2001 200 Educational Psychology .....3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)
*1 0829 200 Initial Field Experience .....1 Semester Hour

(Apply to Teacher Education Program at this point.)

JUNIOR YEAR

1 0892 410 Intermediate Field Experience in Education .....1 Semester Hour
Departmental Methods Course ....3–4 Semester Hours
3 0821 220 Philosophical Orientation to Education .....3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR PHILOSOPHY COURSE)
A course in reading under advisement ..... 3 Semester Hours
A course in critical thinking .....3 Semester Hours
1 0829 400 Teacher, School, and Society .....3 Semester Hours

SENIOR YEAR

Professional Semester Package, including student teaching.....13 Semester Hours
1 0829 435 Effective Teaching/Productive Learning .....2 Semester Hours
1 0829 401 Senior Field Experience .....1 Semester Hour
1 0829 402 Seminar in Professional Education .....1 Semester Hour
Departmental Seminar.....1 Semester Hour
1 0829 411 Supervised Student Teaching .....8 Semester Hours

**Prerequisite Courses*
Note: You are urged to consult frequently with a departmental advisor, the Office of Teacher Education or the Department of Curriculum and Teaching.

E. National Teacher Examination

The New Jersey State Board of Education requires candidates for *instructional* certificates to take sections of the National Teacher Examination and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Education, Room 006, Chapin Hall.

Graduate and Special Programs

1. Certification Program (Post-Baccalaureate) — A program leading to a New Jersey teaching certificate for holders of the B.A. degree who do not wish to enter a graduate degree program.
2. Master of Arts in Teaching — Designed for liberal arts graduates who seek certification as teachers. Special options, including one with a focus on Philosophy for Children, are available.
3. The Master of Education degree — Designed for the teacher who wishes to upgrade classroom knowledge and skills.

NOTE: Consult the graduate catalog for information.

General Education Requirement

Appendix of Courses

The following courses fulfill the General Education Requirement for full-time freshmen and part-time students who began their studies at Montclair State College in Summer/Fall, 1983 or thereafter, and transfer students entering the College in Fall 1985. Refer to the Legend of Departments/Subject Areas and Undergraduate Course Number Codes at the end of this section in order to determine which department offers the course.

GENERAL EDUCATION REQUIREMENT COURSES

COMMUNICATION

Writing
M 1501 105 Freshman Composition
9 4901 100 Honors Seminar: Great Books and Ideas, Part I**
9 4901 101 Honors Seminar: Great Books and Ideas, Part II**

Reading
M 1501 106 Introduction to Literature
4 0830 105 Reading: Communicating Through Text
9 4901 100 Honors Seminar: Great Books and Ideas, Part I**
9 4901 101 Honors Seminar: Great Books and Ideas, Part II**

Speaking/Listening
I 1506 101 Fundamentals of Speech: Communications Requirement
L 1220 101 Fundamentals of Speech: Communications Requirement

CONTEMPORARY ISSUES
E 0506 363 Business and Society
J 2202 206 Human Variation*
J 2202 214 Anthropology of Conflict and Violence
J 2202 311 Anthropology of American Subcultures*†
K 4903 176 Italians and Italian-Americans: Comparative Studies
M 1501 175 The Vietnam War Experience and American Culture
N 2206 109 The Human Environment
Q 1505 250 Language of Propaganda
R 1599 225 Religion and Social Change
T 2001 102 Women's Worlds*
T 2001 109 The Human Environment
T 2001 231 Psychology of Aggression*
T 2099 245 Introduction to Community Psychology
U 2208 113 Social Problems
U 2208 209 Sociology of Poverty and Welfare

**Meets Minorities Culture Requirement.*
†*Meets Human and Intercultural Relations Requirement for teacher certification.*
***For honors program students only.*
(1)*Recommended for students with strong math/science background.*

U 2208 211 Sociology of Health and Illness
U 2208 214 Sociology of Conflict and Violence
U 2208 216 Sociology of Food and Population
U 2208 218 Sociology of Population
Z 1914 221 Conservation of National Resources
3 0821 264 Sexism in American Education*
3 0821 477 Ethnic/Racial Groups and the Schools in America
4 0840 355 Media in Intercultural Communication*†
5 0837 213 Perspectives on Drugs
6 1301 205 Women in Contemporary Society*
6 1301 344 Challenge of Aging
6 1302 260 Housing and Society
6 1304 270 Individual Management: Theories and Strategies
6 1305 445 The Inner City Family*†
6 1306 153 Food and People
7 0839 101 Technology and Culture: Past, Present and Future
7 0990 284 Alternate Energy
8 0835 227 Social Problems in Sports
9 2220 102 Women's Worlds*
9 4901 102 Honors Seminar: Twentieth Century Civilization, Part I**

FINE AND PERFORMING ARTS:
ART APPRECIATION
G 1001 100 Introduction to the Visual Arts
G 1003 105 Art and Civilization I
G 1003 106 Art and Civilization II
G 1003 108 Women in Art
G 1003 215 Ancient Art
G 1003 217 Selected Masterpieces of World Art
G 1003 275 Afro-American Art*
G 1003 327 History of Oriental Art
G 1003 328 Survey of Greek Art
G 1003 450 Modern Architecture
G 1010 299 History of Cinema as Art
G 4921 230 History of the Print
H 1005 100 Introduction to Music
H 1005 160 Introduction to Music in World Cultures
H 1005 209 Introduction to Jazz*
H 1005 236 The American Musical
H 1005 237 The Opera
H 1005 238 Orchestral Literature
H 1005 240 Music of the Romantic Period
I 1007 100 Introduction to the Theatrical Medium
I 1008 105 Dance Appreciation
I 1008 315 Dance History: Primitive to 1850
I 1008 316 Dance History: 1850 to Present
I 1099 100 Introduction to the Fine and Performing Arts
K 4903 208 Introduction to the Film
K 4903 288 Music and Art in French Civilization
M 1511 208 Introduction to the Film
M 4903 208 Introduction to the Film

FOREIGN LANGUAGE
K 1109 101 Beginning Latin I
K 1109 112 Beginning Latin II
K 1109 121 Intermediate Latin I
K 1109 132 Intermediate Latin II
K 1109 201 Latin Literature of the Republic
K 1109 202 Latin Literature of the Golden Age
K 1109 203 Latin Literature of the Silver Age
K 1110 101 Beginning Greek I
K 1110 112 Beginning Greek II
K 1110 121 Intermediate Greek I
K 1110 132 Intermediate Greek II
O 1102 101 Beginning French I
O 1102 112 Beginning French II
O 1102 121 Intermediate French I
O 1102 132 Intermediate French II
O 1102 145 Introduction to French Culture
O 1102 146 Readings in French Literature
O 1103 101 Beginning German I
O 1103 103 Beginning German I (Reading)
O 1003 112 Beginning German II
O 1103 114 Beginning German II (Reading)
O 1103 121 Intermediate German I
O 1103 123 Intermediate German I (Reading)
O 1103 132 Intermediate German II
O 1103 134 Intermediate German II (Reading)
O 1103 151 Advanced German I
O 1103 152 Advanced German II
O 1103 251 Introduction to German Literature I
O 1103 252 Introduction to German Literature II
O 1103 351 German Civilization I
O 1103 352 German Civilization II
O 1106 101 Beginning Russian I
O 1106 112 Beginning Russian II
O 1106 121 Intermediate Russian I
O 1106 132 Intermediate Russian II
O 1106 141 Advanced Russian I
O 1106 152 Advanced Russian II
Q 1505 220 Structure of American English
Q 1107 101 Beginning Chinese I
Q 1107 112 Beginning Chinese II
Q 1107 121 Intermediate Chinese I
Q 1107 132 Intermediate Chinese II
V 1104 101 Italian I
V 1104 102 Italian II
V 1104 103 Italian III
V 1104 104 Italian IV
V 1104 240 Studies in Italian Literature: Origins to 18th Century
V 1104 241 Italian Literature: 18th through 20th Centuries
V 1104 260 Italian Cultural History
V 1105 101 Spanish I
V 1105 102 Spanish II
V 1105 103 Spanish III
V 1105 104 Spanish IV
V 1105 120 Comprehensive Spanish I and II
V 1105 140 Comprehensive Spanish III and IV
V 1105 145 Readings in Hispanic Literature
V 1105 151 Masterpieces of Spanish Literature I
V 1105 152 Masterpieces of Spanish Literature II
V 1105 161 Masterpieces of Spanish-American Literature I
V 1105 162 Masterpieces of Spanish-American Literature II
V 1105 260 Spanish Cultural History
V 1105 270 Spanish-American Cultural History*
V 1105 280 Cuban Cultural History*
V 1198 101 Portuguese I
V 1198 102 Portuguese II
V 1198 103 Portuguese III
V 1198 104 Portuguese IV
V 1198 160 Masterpieces of Portuguese Literature
V 1198 162 Masterpieces of Brazilian Literature
V 1198 260 Luso-Brazilian Culture

HUMANITIES

World Literature or General Humanities

World Literature
M 1503 176 World Literature: The Coming of Age Theme
M 1503 177 World Literature: Voices of Tradition and Challenge

General Humanities
G 1003 250 Modern Philosophies of Art
K 4903 201 General Humanities I
K 4903 202 General Humanities II
K 4902 285 Mythology

Philosophy/Religion
R 1509 100 Introduction to Philosophy
R 1509 102 Ethics
R 1509 104 Social and Political Philosophy
R 1509 106 Logic
R 1599 100 Religions of the World
R 1599 101 Introduction to Religion
R 1599 103 Religion and Moral Issues
R 1599 221 Religion and Culture
R 1599 269 Death and Dying: Religious Perspectives
3 0821 220 Philosophical Orientation to Education

**Meets Minorities Culture Requirement.*
†Meets Human and Intercultural Relations Requirement for teacher certification.
***For honors program students only.*
(1)Recommended for students with strong math/science background.

MATHEMATICS

Mathematics

Y 1701 103 The Development of Mathematics
Y 1701 109 Statistics
Y 1701 116 Calculus A(1)
Y 1701 122 Calculus I(1)
Y 1701 221 Calculus II(1)

Computer Science

Y 0701 107 Computers and Society
Y 0701 108 Computers and Programming
Y 0701 109 Introduction to Computer Applications
Y 0701 183 Foundations of Computer Science I(1)

NATURAL/PHYSICAL SCIENCE

Laboratory or Non-Laboratory Science

W 0401 100 Biological Sciences
W 0401 103 Basic Biology I
W 0401 104 Basic Biology II
W 0401 110 The Biology of Human Life
W 0401 130 General Zoology I(1)
W 0401 131 General Zoology II(1)
W 0401 140 Biology of the Cell(1)
X 1905 100 Introductory Chemistry
X 1905 120 General Chemistry I(1)
Z 1902 191 General Physics I(1)
Z 1902 192 General Physics II(1)
Z 1902 193 College Physics I(1)
Z 1902 194 College Physics II(1)
Z 1914 112 Physical Geology
Z 1914 114 Historical Geology
Z 4902 100 Concepts in Science
Z 4902 105 Science of Sound
Z 4902 107 Planet Earth
9 4901 210 Honors Seminar in Science I
9 4901 211 Honors Seminar in Science II

Laboratory Science Only

W 0401 121 The Plant Kingdom(1)

Non-Laboratory Science Only

J 2202 101 Physical Anthropology
N 2206 100 Principles of Geography
W 0401 107 Biology of Survival
W 0401 109 Introductory Ecology: The Living World
W 0401 215 Human Heredity
Z 4902 104 History of Science
Z 4902 106 Science and Society
Z 4902 108 Principles of Geology
Z 4902 110 Natural Disasters
Z 4902 157 Understanding the Weather
Z 4902 162 General Oceanography
Z 4902 180 Descriptive Astronomy
5 0837 240 Foundations of Environmental Health
6 1306 182 Nutrition

PHYSICAL EDUCATION

8 0879 200 Beginning Swimming
8 0879 201 Springboard Diving
8 0879 202 Badminton
8 0879 203 Golf
8 0879 240 Platform Tennis
8 0879 242 Racquetball
8 0879 250 Intermediate Swimming
8 0879 251 Aerobic Activities
8 0879 252 Archery
8 0879 253 Gymnastics
8 0879 257 Weight Training and Conditioning
8 0879 258 Beginning Tennis
8 0879 260 Beginning Riding
8 0879 261 Fencing
8 0879 262 Volleyball
8 0879 263 Jogging
8 0879 264 Soccer
8 0879 265 Figure Skating
8 0879 266 Skiing
8 0879 267 Advanced Swimming
8 0879 268 Bicycling
8 0879 270 Folk and Square Dance
8 0879 271 Social Dance
8 0879 272 Bowling
8 0879 274 Scuba Diving
8 0879 275 Beginning Karate
8 0879 278 Yoga

SOCIAL SCIENCE

American/European History

K 4903 281 Greek Civilization
K 4903 282 Roman Civilization
p 2205 103 Foundations of Western Civilization
K 2205 105 Emergence of European Civilization 1500-1914
P 2205 106 Contemporary Europe 1914-Present
P 2205 110 Introduction to American Civilization
P 2205 111 Contemporary American Issues in Historical Perspective
P 2205 117 History of the United States to 1876
P 2205 118 History of the United States since 1876
P 2205 281 Greek Civilization
P 2205 282 Roman Civilization
7 0990 205 Historical Perspectives of American Industries-Field Study

Non-Western Cultural Perspectives

C 2204 303 Economic Growth and Development
G 1003 220 Art in Non-Western Societies*
J 2202 301 Peoples of Africa*
J 2202 302 Native Latin Americans*
J 2202 305 Native North Americans*
J 2202 307 Ethnology of Southeast Asia and Oceania*
J 2202 310 Cultures of the Middle East
J 2202 312 Peasant Culture
J 2202 431 Development of Indian Character and Culture
J 2202 432 Development of Japanese Character and Culture
K 4903 293 Russian Culture and Civilization
N 2206 412 Geography of the Sub-Sahara Africa
N 2206 413 Geography of the Middle East
O 4903 293 Russian Culture and Civilization
P 2205 108 Introduction to African Civilization*
P 2205 109 Introduction to Islamic Civilization
P 2205 114 Early Latin American Civilization*
P 2205 131 Introduction to Indian Civilization*
P 2205 132 Introduction to Chinese Civilization*
P 2205 223 Communist Revolution in China
P 2205 431 Development of Indian Character and Culture
P 2205 432 Development of Japanese Character and Culture
R 1599 210 Religion of the North American Indians*

Survey Courses

C 2204 100 Introduction to Economics
C 2204 101 Principles of Economics: Macro
C 2204 102 Principles of Economics: Micro
J 2202 100 Cultural Anthropology*
J 2202 203 Anthropological Linguistics
J 2202 205 Prehistoric Archaeology
N 2206 101 Introduction to Cultural Geography
Q 1505 210 Introduction to General Linguistics
S 2207 201 Comparative Politics
T 2001 101 General Psychology I: Growth and Development
T 2001 246 Psychology of the Black Experience
U 2208 100 The Sociological Perspective

Topic Courses

B 0838 101 Contemporary Business
C 2204 215 Economics of Social Problems*†
C 2204 403 Comparative Economic Systems
J 2202 200 Urban Anthropology*†
J 2202 202 Cultural Change and Modernization
J 2202 207 American Folk Culture
K 4903 181 Introduction to Classical Archaeology
N 2206 102 World Geography
N 2206 206 Introduction to American Urban Studies*

**Meets Minorities Culture Requirement.*

†Meets Human and Intercultural Relations Requirement for teacher certification.

***For honors program students only.*

(1)*Recommended for students with strong math/science background.*

N 2206 308 Land and Life in Latin America*
N 2206 313 Urban Geography*†
Q 1505 245 Language and Culture
Q 1505 330 Language in Society
S 2207 102 Institutions of American Government
S 2207 103 American Political Process
S 2207 200 Introduction to Politics
T 2001 105 The Psychological Study of Social Issues
T 2001 200 Educational Psychology
T 2001 201 Child Psychology
T 2001 202 Adolescent Psychology
T 2001 225 Psychology of Adjustment
T 2001 265 Psychology of Women*
U 2208 101 Criminology
U 2208 202 Racial and Ethnic Relations*†
U 2208 204 Sociology of the Family
U 2208 207 Social Structure of American Society
3 0821 440 Sociological Foundations of Education
6 1304 231 The Family in the Economic System
6 1305 140 Family in Society
9 4901 103 Honors Seminar: Twentieth Century Civilization, Part II**

ELECTIVES

The following may be used to satisfy the General Education Electives Requirement:

1. GER approved courses (other than Physical Education)
2. General introductory courses at the 100-level or 200-level in any department in the schools of Fine and Performing Arts, Humanities and Social Sciences, and Mathematical and Natural Sciences.
3. Courses in the areas of Creative Expression and/or Personal/Professional Issues.

Note: General Education Electives must be taken outside the student's major.

Creative Expression

G 1001 103 Visual Arts Studio I
G 1001 104 Visual Arts Studio II
G 1001 107 Drawing I
G 1001 125 Multi-Media I
G 1001 215 Drawing II
G 1001 220 Life Drawing I
G 1001 225 Multi-Media II
G 1001 280 Life Drawing II
G 1001 311 Intermediate Papermaking I
G 1002 200 Painting I
G 1002 201 Painting II
G 1002 211 Sculpture I
G 1002 212 Sculpture II
G 1002 244 Sculpture: Modeling and Casting I
G 1002 245 Sculpture: Carving I
G 1002 246 Sculpture: Metal Casting I
G 1002 247 Sculpture: Fabrication I
G 1002 248 Sculpture: Welding-Brazing I
G 1002 249 Sculpture: Clay I
G 1002 250 Figurative Painting
G 1002 254 Sculpture: Modeling and Casting II
G 1002 255 Sculpture: Carving II
G 1002 256 Sculpture: Metal Casting II
G 1002 257 Sculpture: Fabrication II
G 1002 258 Sculpture: Welding-Brazing II
G 1002 259 Sculpture: Clay II
G 1010 218 Film Making I
G 1010 219 Film Making II
G 1010 221 Video-Television as an Art Form I
G 1011 213 Photography I: A Contemporary Art Form
G 1011 214 Intermediate Photography: A Contemporary Art Form
G 1011 231 Humorous and Satirical Illustration for Publication
G 1090 200 Leather I
G 1090 202 Ceramics, Pottery and Sculpture I
G 1090 203 Ceramics, Pottery and Sculpture II
G 1090 204 Fibers and Fabrics I
G 1090 205 Fibers and Fabrics II
G 1090 206 Leather II
G 1090 207 Surface Design I
G 1090 210 Textile Design I
G 1090 225 Surface Design II
G 4921 120 Introduction to Printmaking
G 4921 200 Introduction to Intaglio and Relief Printing
G 4921 202 Introduction to Lithography
H 1004 100 Class Piano for Non-Music Majors
H 1004 103 Voice Class for the Non-Music Major
H 1004 105 Modern Guitar Workshop
H 1005 250 Sounds of the City
H 1016 150 Fundamentals of Music for the Non-Major
I 1007 122 Acting I
I 1506 160 Oral Interpretation of Literature
I 1506 363 Reader's Theatre

Personal/Professional Issues

B 0838 309 Personal Finance
G 1095 250 Introduction to Art Therapy
G 1095 310 Group Art Therapy and Creativity Development
Q 1401 200 Introduction to Law and Legal Professions
T 2001 103 Freshman Seminar
U 2208 206 Individual and Society
2 0826 330 Dynamics of One-to-One Communication
2 0826 331 Group Dynamics
2 0826 432 Personal Values
2 0826 482 Career Consciousness
5 0837 101 Health for Personal Living
5 0837 220 Mental Health
5 0837 290 Human Sexuality
6 1301 141 Interpersonal Relations
6 1303 122 Clothing and Culture: A Multidisciplinary Study
6 1305 320 Parenting Skills and Resources

**Meets Minorities Culture Requirement.*
†*Meets Human and Intercultural Relations Requirement for teacher certification.*
***For honors program students only.*
(1)*Recommended for students with strong math/science background.*

LEGEND OF DEPARTMENTS/ SUBJECT AREAS AND UNDERGRADUATE COURSE NUMBER CODES

School of Business Administration

- A Accounting, Law and Taxation (0501, 0502, 0506)
- B Business Education and Office Systems Administration (0838, 0844, 0845)
- C Economics (2204)
- D Finance and Quantitative Methods (0503, 0504)
- E Management (0506)
- F Marketing (0506, 0509)

School of Fine and Performing Arts

- G Fine Arts (0831, 1001, 1002, 1003, 1010, 1011, 1090, 1091, 1095, 1099, 4921)
- H Music (0832, 1004, 1005, 1006, 1016, 1095, 1099)
- I Speech and Theatre (0603, 1007, 1008, 1009, 1506)

School of Humanities and Social Sciences

- J Anthropology (2202)
- K Classics (1109, 1110, 4903)
- K General Humanities (4903)
- L Communication Sciences and Disorders (1220)
- M English (1501, 1503, 1505, 1507, 1511, 4903)
- N Environmental, Urban and Geographic Studies (0308, 2206, 4951)
- O French (1102, 4903)
- O German/Slavic (1103, 1106, 4903)
- P History (2201, 2205)
- Q Linguistics (1107,1505,1508)
- Q Legal Studies (1401, 1402, 1499)
- R Philosophy and Religion (1509, 1599)
- S Political Science (2207)
- T Psychology (2001, 2099)
- U Sociology (2208)
- V Spanish/Italian (1104, 1105, 1198, 4903)

School of Mathematical and Natural Sciences

- W Biology (0401, 0499, 1999)
- W Toxicology (0426)
- X Chemistry (1905)
- Y Mathematics and Computer Science (0701, 1701)
- Z Physics/Geoscience (0834, 1902, 1914, 1999, 4902)

School of Professional Studies

- 1 Curriculum and Teaching (0829)
- 1 Continuing Education (0807)
- 1 Environmental Education—New Jersey School of Conservation (0843)
- 2 Counseling, Human Services and Guidance (0826)
- 3 Educational Foundations (0821)
- 4 Educational Leadership (0824, 0830, 0840)
- 5 Health Professions (0837)
- 6 Home Economics (0893, 1301, 1302, 1303, 1304, 1305, 1306, 1307)
- 7 Industrial Studies (0839, 0990, 0991, 0996, 0998)
- 8 Physical Education, Recreation and Leisure Studies (0835, 0879, 2103)

Special Programs

- 9 Cooperative Education (4950)
- 9 Honors Program, College (4901)
- 9 Reserve Officers Training Corps (ROTC) (1801)
- 9 Women's Studies (2220)



ACADEMIC PROGRAMS by departments

Accounting, Law and Taxation

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Lee Primiano

Increased government regulation and business expansion demand added expertise of today's accountant. The department's accounting program prepares students for careers in public and private accounting.

The Certified Public Accountant (CPA) is concerned with public accounting. CPA's render a variety of services for their clients: conducting independent audits and providing accounting, tax, and a variety of management advisory services. The program meets all educational requirements for admission to the CPA examination.

In the private sector, graduates are prepared primarily for industrial accounting leadership positions. The program emphasizes the structure, design, and analysis of accounting systems in the financial reporting and management decision processes.

The accounting courses integrate the study of theory and current practice with research and computer applications.

A Bachelor of Science degree is offered in Business Administration with specializations in professional accounting and managerial accounting.

Business Administration Major

Required Courses

		Semester Hours
0502 201	Fundamentals of Accounting I	3
0502 202	Fundamentals of Accounting II	3
0501 261	Legal Environment of Business I	3
0503 270	Statistics for Business	4
0506 311	Management Process and Organizational Behavior	4
0504 321	Fundamentals of Finance	3
0509 340	Introduction to Marketing	3
0503 372	Management Science	4
0506 439	Business Policy	3
0503 463	Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113	Mathematics for Business I	3
1701 114	Mathematics for Business II	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Specializations within the Major

Professional Accounting

Required Courses

		Semester Hours
0502 301	Intermediate Accounting I	4
0502 302	Intermediate Accounting II	4
0502 303	Auditing Theory and Practice	3
0502 307	Cost Accounting and Control I	3
0502 403	Tax Accounting	3

Electives

Select 3 semester hours from the appropriate list to be obtained from the department 3

Managerial Accounting

Required Courses

0502 301	Imtermediate Accounting I	4
0502 302	Intermediate Accounting II	4
0502 307	Cost Accounting and Control I	3
0502 308	Cost Accounting II	3

Electives

Selest 6 semester hours from the appropriate list to be obtained from the department 6

Courses of Instruction

A 0501 261 3.0
LEGAL ENVIRONMENT OF BUSINESS I
A study of the legal principles of a governed society and the social forces within such a society. Special attention is accorded to the law of contracts and of agency, employing the uniform commercial code as a basis for interpretation. Case material.

A 0501 262
LEGAL ENVIRONMENT OF BUSINESS II 3.0
An analysis of the law of commercial paper and sales with an introduction to secured transactions. The basic statutory source employed is the uniform commercial code. Case material (recommended for CPA preparation).
Prerequisite: A 0501 261.

A 0501 263
LEGAL ENVIRONMENT OF BUSINESS III 3.0
An analysis of the law of partnerships and corporations including the nature of formation, rights and duties of parties, and dissolution. The basic statutory sources employed are the uniform partnership act and the model business corporation act; case material.
Prerequisites: A 0501 262, D 0504 321.

A 0502 200
ACCOUNTING FOR NONBUSINESS MAJORS 3.0
This is a basic course in the concepts and uses of financial data as it relates to business decision making. (Not for business majors.)

A 0502 201
FUNDAMENTALS OF ACCOUNTING I 3.0
Mastery of the fundamental elements of accounting, journalizing, posting, taking a trial balance, preparing financial statements, and closing books, special journals and controlling accounts.
Prerequisites: Y 1701 113, 114; C 2204 101, 102.

A 0502 202
FUNDAMENTALS OF ACCOUNTING II 3.0
Builds on financial accounting. Corporation accounting, bonds payable, investments, manufacturing costs, fund flow analysis and profit-volume relationships.
Prerequisites: A 0502 201.

A 0502 301
INTERMEDIATE ACCOUNTING I 4.0
The preparation of advanced accounting statements, valuation of current and fixed assets, intangible assets, current liabilities and investments.
Prerequisites: A 0502 202.

A 0502 302
INTERMEDIATE ACCOUNTING II 4.0
A continuation of principles underlying financial statements, long-term liabilities, present value analysis, corporate capital, funds flow and special purpose funds.
Prerequisites: A 0502 301.

A 0502 303
AUDITING THEORY AND PRACTICE 3.0
The conduct of audits of various types, the balance sheet audit, audit working papers, correction of books and preparation of audit reports.
Prerequisites: A 0502 302.

A 0502 307
COST ACCOUNTING AND CONTROL I 3.0
The determination of product costs and elements of cost control applied to basic job order, process and standard cost systems. The nature of manufacturing costs and the use of accounting data in decision making.
Prerequisites: A 0502 202.

A 0502 308
COST ACCOUNTING AND CONTROL II 3.0
Estimating cost, budgets and costs, standard cost, analysis and control of costs, break-even analysis and differential cost analysis.
Prerequisites: A 0502 307.

A 0502 401
ADVANCED ACCOUNTING 3.0
Accounting problems peculiar to consolidated financial statements, partnership accounts and special sales procedures.
Prerequisites: A 0502 302.

A 0502 403
TAX ACCOUNTING 3.0
A comprehensive picture of the federal tax structure, the determination of net income, credits exemptions and rates for various taxpayers.
Prerequisites: A 0502 202.

A 0502 404
CURRENT TAX PROBLEMS 3.0
Advanced phases of income taxation with particular attention to corporations, partnerships and estates.
Prerequisites: A 0502 403.

A 0502 405
PROFIT PLANNING AND CONTROL 3.0
Budgetary organization, various types of budgets and supplementary schedules, business forecasts of sales and production and flexible budgets.

A 0502 407
ACCOUNTING SYSTEMS AND DATA PROCESSING 3.0
Analysis of accounting systems and the organization of accounting information for use with manual and automated methods.

A 0502 409
CPA REVIEW 3.0
Advanced accounting problems, current pronouncements on theory, and review of auditing theory and practice in preparation for the CPA examination. (Cannot be used to meet the 24 semester hours of accounting required to sit for the CPA examination in the State of New Jersey.)

Anthropology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Bertha B. Quintana

All peoples and all aspects of human life are the subject of anthropology. It stresses objectivity through the study of other peoples; provides insights from the studies that others make of us; and teaches responsibility by applying the results to our rapidly changing, evolving world.

The four basic fields: cultural anthropology, archaeology, physical anthropology, and anthropological linguistics are represented in the department. The major prepares students for advanced work in the discipline which can lead to college teaching, museum work and/or research. By providing diversity in courses, including a strong contemporary curricular component in practical anthropology, the student can prepare for non-academic careers as well — e.g., community service agencies, multinational corporations, public health programs, urban renewal, international relations. Programs can also be adapted to meet certification for teaching secondary school social studies in New Jersey. For those interested in a liberal arts background, anthropology is an excellent program which can be combined with other career-oriented majors and minors.

The department also has a unique apprenticeship experience designed to test theories learned in the classroom and to gain practice in the field. Montclair State College has been commended for being one of the few colleges in the country to offer this type of integrated academic and applied opportunity to undergraduate students.

Anthropology Major

Required Courses

		Semester Hours
2202 100	Cultural Anthropology	3
2202 101	Physical Anthropology	3
2202 203	Anthropological Linguistics	3
2202 205	Prehistoric Archaeology	3

Electives (Cross-cultural)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Electives (Theory and Methods)

Select 12 semester hours from the appropriate list to be obtained from the department 12
Note: Work in supportive areas — e.g., transcultural studies (including non-western history and cultural geography), urban studies, social psychology, primitive art, ethno-musicology, the natural sciences, statistics, sociology, linguistics, and foreign languages — is strongly recommended and should be discussed with major advisors.

Teacher Certification

(Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. They should consult the faculty advisor for the social studies certificate.

Courses of Instruction

J 2202 100
CULTURAL ANTHROPOLOGY 3.0
Analysis of transcultural data, basic methodologies, concepts and goals of anthropology, the nature of culture, its role in human experience and its universality. Meets the General Education Requirement — Social Science, Survey Course. Meets the Minorities Culture Requirement.

J 2202 101
PHYSICAL ANTHROPOLOGY 3.0
The biological basis of human evolution including surveys of human paleontology, primatology and human races. The relationship of culture to human development; lectures, field trips and the use of fossil and audio-visual materials. Meets the General Education Requirement — Natural/Physical Science, Non-Laboratory Science.

J 2202 200
URBAN ANTHROPOLOGY 3.0
The dynamics of acculturation that characterize the relationships between urban subcultures and the broader urban community. Emphasizes values, personality, behaviors and other aspects of the adjustment of people whose lifestyles set them apart from the dominant society. Meets the General Education Requirement — Social Science, Topic Course. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

J 2202 202
CULTURAL CHANGE AND MODERNIZATION 3.0
Cultural development, growth, transmission, perpetuation and change. The concept of modernization and its implications for folk and urban culture. Meets the General Education Requirement — Social Science, Topic Course.

J 2202 203
ANTHROPOLOGICAL LINGUISTICS 3.0
Different linguistic systems will be analyzed through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems will be emphasized in individual student field experience and in readings and lectures. This course is cross-listed with Linguistics (1505 203). Meets the General Education Requirement — Social Science, Survey Course.

J 2202 204
ANTHROPOLOGY OF RELIGION 3.0
Patterns of religious beliefs and behaviors which relate to sacred, supernatural entities. Origin theories, divination, witchcraft, mythology and the relationship of religious movements to the other aspects of culture.

J 2202 205
PREHISTORIC ARCHAEOLOGY 3.0
The development, method and theory of anthropological archaeology, analysis and interpretation of prehistoric cultural data by means of audio-visual, field and participatory involvement. Meets the General Education Requirement — Social Science, Survey Course.

J 2202 206
HUMAN VARIATION 3.0
The study of various races from the perspective of physical anthropology. Theories and explanations of human variations, racial types in the modern world, as well as misconceptions concerning race, intelligence, and culture will be explored. Meets the General Education Requirement — Contemporary Issues. Meets the Minorities Culture Requirement.

J 2202 207
AMERICAN FOLK CULTURE 3.0
Introduction to American folklore and folklife. Folklore theory and traditions, and the presentation and analysis of material folk culture. Meets the General Education Requirement — Social Science, Topic Course.

J 2202 214
ANTHROPOLOGY OF CONFLICT AND VIOLENCE 3.0
A multidisciplinary approach to the social sources of conflict and violence; the anthropological approach contrasted with biological and other approaches; interpersonal and institutional conflict and violence; the relationship between conflict and violence; types of conflict and violence, war, crime, family violence, class conflict, ethnic and racial hostilities. Meet the General Education Requirement — Contemporary Issues.

J 2202 301
PEOPLES OF AFRICA 3.0
Diversity in the lifestyles of representative African cultures; prehistory, culture change, and contemporary problems in sub-Saharan Africa. Meets the General Education Requirement — Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

J 2202 302
NATIVE LATIN AMERICANS 3.0
Study of indigenous peoples of Latin America. Surveys earliest evidence of human occupation of Middle and South America and the Caribbean; diverse origins of food production; intellectual achievements; political organization; material contributions to world culture; and aspects of early European contact and conquest. Meets the General Education Requirement — Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

J 2202 304
PEOPLES OF THE SOVIET UNION 3.0
Selected ethnic, linguistic and religious identities within the borders of the Soviet Union. Rusian influence on culture change among non-Russian peoples.

J 2202 305
NATIVE NORTH AMERICANS 3.0
Amerindian cultures north of Mexico; representative tribes, their world views, and their adaptations to the environment, each other, and European contact. Meets the General Education Requirement — Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

J 2202 307
ETHNOLOGY OF SOUTHEAST ASIA AND OCEANA 3.0
Anthropological survey of selected tribal and peasant societies of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia, and the Philippines: recent socio-cultural changes. Meets the General Education Requirement — Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

J 2202 310
CULTURES OF THE MIDDLE EAST 3.0
The Middle East culture area in anthropological perspective. Emphasis is placed on the nature of different interlocking cultural systems which are adaptations to environmental stresses in the Middle East. The concepts of culture and society will be explored in the context of course materials. Meets the General Education Requirement — Social Science, Non-Western Cultural Perspectives.

J 2202 311
ANTHROPOLOGY OF AMERICAN SUBCULTURES 3.0
Analysis of the diversity of racial, ethnic, religious, occupational, and other subcultures and subgroups within the U.S. Emphasis on the character of American culture. Subpopulations are examined in relationship to each other and to the mainstream culture. Meets the General Education Requirement — Contemporary Issues. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

J 2202 312
PEASANT CULTURE 3.0
Persistence and change among selected peasant peoples of the world. Characteristics of peasant society, personality in peasant culture, and modernization trends and effects. Guest lectures by cultural historians. Meets the General Education Requirement — Social Science, Non-Western Cultural Perspectives.

J 2202 313
ARCHAEOLOGY OF ANCIENT MIDDLE AMERICA 3.0
The archaeology of ancient cultures of Middle America. Consists of two major units: (1) North Mesoamerica, the Gulf Coast, Oaxaca and Central Mexican Aztecs; (2) Ancient Maya of Mexico and Central America.

J 2202 320
CONTEMPORARY PRACTICAL ANTHROPOLOGY 3.0
The course emphasizes the uses of anthropology in contemporary societies by stressing the skills and knowledge needed for the development of practical solutions to current problems. Special attention is placed on: policy decision making, community development, cultural resource management, advocacy and social impact assessment.

J 2202 321
METHODS IN ANTHROPOLOGICAL RESEARCH AND PRACTICE 3.0
This course is designed to provide students with both knowledge and experience in the practice of anthropology via participant observation, simulations, project planning, and targeted field exercises. In carrying out selected activities, students will not only learn about the uses of anthropological research techniques in a variety of contexts, but will themselves experience the satisfaction of actually "doing" anthropology.
Prerequisite: J 2202 320.

J 2202 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
Transcultural focus on the interrelated nature of culture and human behavior. Interdisciplinary course with emphasis on mutual dependencies of anthropological and psychological theory and method. Students work with bicultural informants. Cross-listed with Psychology (T 2001 405).
Prerequisites: J 2202 100 or T 2001 101.

J 2202 406
ANTHROPOLOGY OF AGING AND THE AGED 3.0
An analysis of the influences of cultural systems on the processes of aging. Special emphasis is placed on the behaviors and meanings attached to the stages of growing older in a variety of cultural systems.

J 2202 407
INDEPENDENT RESEARCH IN ANTHROPOLOGICAL THEORY AND METHOD 3.0-6.0
Directed research towards the preparation of written papers, stressing fieldwork, library research and problem orientation. A tutorial without formal class meetings.
Prerequisites: Departmental approval.

J 2202 411
ARCHAEOLOGICAL FIELD METHODS 3.0
Provides practical field experience in the various aspects of survey and excavation techniques. A specific area will be surveyed and a site will be excavated.
Prerequisite: J 2202 205 or instructor's permission.

J 2202 413
MEDICAL ANTHROPOLOGY 3.0
Examines the study of medical care in comparative societies (ethnomedicine) as well as the historical and ecological aspects of disease in human evolution.
Prerequisite: J 2202 101 or instructor's permission.

J 2202 415
WOMEN IN TRADITIONAL SOCIETY 3.0
Surveys several traditional preindustrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic system is also analyzed. Meets the Minorities Culture Requirement.

J 2202 419
EXPERIMENTAL ARCHAEOLOGY 3.0
The course will cover the manufacture, use, preservation, analysis and cataloging of prehistoric artifacts made of stone, bone, and wood.
Prerequisite: J 2202 205 or J 2202 411.

J 2202 420
APPRENTICESHIP IN ANTHROPOLOGY 6.0-12.0
According to interest and preparation, students are placed in cooperating agencies in order to provide an opportunity to test their acquired theoretical knowledge and to gain disciplined practice in their profession. Under faculty guidance and agency supervision, students are to engage in anthropological fieldwork by conducting research and/or special projects.
Prerequisite: 24 hours in anthropology, 6 additional hrs. in social and behavioral sciences.

J 2202 430
FIELD METHODS LINGUISTICS 3.0
Focuses on the development of the student's skill in gathering and analyzing linguistic data. Complements the more theoretically oriented courses in linguistics.
Prerequisites: J 2202 203 or Q 1505 210.

J 2202 431
DEVELOPMENT OF INDIAN CHARACTER AND CULTURE 3.0
The historical conditioning of Indian behavior. Culture change in the perspective of colonialism and modernization: contributions of religion to social and political values and modern literature. Cross-listed under history.
Prerequisite: P 2205 131. Meets the General Education Requirement — Social Science, Non-Western Cultural Perspectives.

J 2202 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
The historical conditioning of Japanese behavior; cultural change in the perspective of traditional periodization of Japanese history; contributions of religion and philosophy to defining social values. Cross-listed with History (P 2205 432). Meets the General Education Requirement — Social Science, Non-Western Cultural Perspectives.

J 2202 461
CULTURAL HISTORY OF PRIMITIVE SOCIETIES 3.0
Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Documentary and non-documentary evidence in reconstructing the culture history of pre- or semi-literate societies. Cross-listed with History (P 2205 461).
Prerequisite: J 2202 100 or P 2205 200.

Biology

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: J. Michael McCormick

The student can prepare for a biology career, graduate work, or professional programs in medicine, dentistry, medical technology, and other fields related to biology, by taking the major requirements with a proper selection of electives. Students can obtain certification to teach biology by completing the professional sequence. A minor in biology is also available.

Outstanding students can take advantage of the honors program and be granted an "Honors in Biology" by fulfilling the prescribed requirements. For information about the program, contact the department chairperson.

Freshman courses offered for biology majors assume that the student has taken biology, chemistry and physics and at least three years of college preparatory mathematics in high school.

A major in toxicology is also offered and is described later in this catalog.

Biology Major

Required Courses

		Semester Hours
0401 140	Biology of the Cell	4
0401 121	The Plant Kingdom	4
0401 130	General Zoology I	4
0401 131	General Zoology II	4
0401 414	Genetics	5

Collateral Courses

1905 120, 121	General Chemistry I, II	4 ea.
1905 230, 231	Organic Chemistry I, II	3 ea.
1905 232	Experimental Organic Chemistry I	2
1902 193, 194	College Physics I, II	4 ea.

Select one sequence:

1701 115	Precalculus Mathematics	3
1701 116	Calculus A	4
1701 122, 221	Calculus I, II	4 ea.
1701 117, 118	Mathematics and Computer Science for the Life Sciences I, II	4, 3

Electives

Select 13 semester hours from the appropriate list to be obained from the department 13

Biology Minor

Required Courses

0401 140	Biology of the Cell	4
0401 121	The Plant Kingdom	4
0401 130	General Zoology I	4
0401 131	General Zoology II	4
0401 414	Genetics	5

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. The course requirements are otherwise similar to those of the Biology major. In addition, for the Comprehensive Science and Biological Science certificates, two additional courses, W 0401 320 Plant Form and Function and Z 0834 401 The Teaching of Science in Secondary School, must be taken.

Second Teaching Field in Biological Sciences

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Students majoring in another field desiring certification in biology in addition to one in their major field must take the following:

0401 121	The Plant Kingdom	4
0401 130	General Zoology I	4
0401 131	General Zoology II	4
0401 320	Plant Form and Function	4
0401 370	Principles of Ecology	3
0401 414	Genetics	5
1905 120	General Chemistry I	4
1905 121	General Chemistry II	4
0834 401	The Teaching of Science in Secondary Schools	4

Special Program Requirements

Biology Honors

- Biology Major
- Overall Grade Point Average 3.5
- Biology Grade Point Average 3.7 with no grade lower than a "B"
- Additional Courses
  0401 418 Biology Independent Study
  0401 495 Independent Study in Biology Literature
  (2 Biology faculty sponsors needed)

Courses of Instruction

W 0401 100
BIOLOGICAL SCIENCES 4.0
Organization of plants and animals, structure, function, mechanisms of heredity, evolutionary change. Interrelationships of man, other organisms and environment. (3 hrs. lecture, 2 hrs. laboratory.)

W 0401 103
BASIC BIOLOGY I 4.0
A sudy of the structure and function of cells, a survey of the plant kingdom describing the anatomy, physiology and ecology of plants with emphasis on the higher plants. (3 hrs. lecture; 3 hrs. laboratory.)

W 0401 104
BASIC BIOLOGY II 4.0
Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these.

W 0401 107
BIOLOGY FOR SURVIVAL 3.0
Basic concepts of biology that focus on social implications of pollution, population control, radiation, drugs, pesticides, the genetic revolution, etc. for non-science majors. (3 hrs. lecture)

W 0401 109
INTRODUCTORY ECOLOGY: THE LIVING WORLD 3.0
To acquaint the non-biology major with the general principles of plant and animal interactions and the adaptations of plants and animals to their habitats, including the extreme habitats of desert, cave, deep sea, and the arctic.

W 0401 110
THE BIOLOGY OF HUMAN LIFE 4.0
The biological basis to human development, birth, maturation, and aging. Not for biology major credit. (3 hrs. lecture, 3 hrs. laboratory)

W 0401 120
PLANT FORM & FUNCTION 4.0
This course acquaints the student with the methods and tools of science. Morphology and physiology of the cell and of the plant as a whole are considered.

W 0401 121
THE PLANT KINGDOM 4.0
Survey of the plant kingdom with emphasis on evolutionary trends and economic importance. (2 hrs. lecture, 4 hrs. laboratory.)

W 0401 130
GENERAL ZOOLOGY I 4.0
An introduction to the animal kingdom. Phylogeny, anatomy, physiology, reproduction, development and ecology are discussed in relation to selected animal types. (3 hrs. lecture, 3 hrs. laboratory)

W 0401 131
GENERAL ZOOLOGY II 4.0
An introduction to the animal kingdom. Phylogeny, anatomy, physiology, reproduction, development and ecology are discussed in relation to selected animal types. (3 hrs. lecture, 3 hrs. laboratory)
Prerequisite: W 0401 130.

W 0401 140
BIOLOGY OF THE CELL 4.0
Form, function and evolution of cells. (3 hrs. lecture, 3 hrs. laboratory)

W 0401 213
INTRODUCTION TO FIELD BIOLOGY 2.0
Taxanomy, ecology and conservation are stressed for a ten-day period at the New Jersey State School of Conservation in Stokes State Forest.

W 0401 215
HUMAN HEREDITY 3.0
A non-major course introducing concepts of classical hereditary and modern molecular genetics, which stresses the techniques and significance of genetic knowledge and research. Meets the General Education Requirement.

W 0401 240
MAMMALIAN ANATOMY AND PHYSIOLOGY I 3.0
Human anatomy and physiology for health education and physical education majors. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory)

W 0401 241
MAMMALIAN ANATOMY AND PHYSIOLOGY II 3.0
Human anatomy and physiology for health education and physical education majors. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory)

W 0401 242
HUMAN BIOLOGY 3.0
Body structure and functions in relation to the maintenance of good health. Not for biology majors. (2 hrs. lecture, 2 hrs. laboratory)

W 0401 243
HUMAN ANATOMY AND PHYSIOLOGY 4.0
A study of the dynamics of the human body in relation to its structure and function is based on its nutritional input. Each organ system is discussed in relation to its contribution to the whole functioning organism, as well as a basic survey of its pathologies. Primarily for ADA certification.
Prerequisite: X 1905 270.

W 0401 244
ANATOMY AND PHYSIOLOGY OF MAMMALS I 4.0
The structure and function of the cell, tissue and organ systems — integumentary, skeletal, muscular, circulatory and respiratory. Not for Biology Majors. (3 hours lecture, 2 hours lab)

W 0401 245
ANATOMY AND PHYSIOLOGY OF MAMMALS II 4.0
The structure and function of the organ systems — nervous, excretory, endocrine, digestive and reproductive. Not for Biology Majors. (3 hours lecture, 2 hours lab)

W 0401 254
APPLIED MICROBIOLOGY 3.0
Microbiological concepts and techniques applicable to food and dairy processing, health and disease, water, waste and other environmental problems. (2 hrs. lecture, 3 hrs. laboratory)
Prerequisite: One year chemistry or course in similar field.

W 0401 255
SURVEY OF MICROBIOLOGY 4.0
Microbiological concepts and techniques applicable to medical, health and environmental problems. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: One year of chemistry or course in similar field.

W 0401 300
ENVIRONMENTAL BIOLOGY &
RELATED CONTROVERSIAL ISSUES 3.0
Analysis of ecological problems of today's population trends and control, food production, environmental deterioration, waste disposal, etc.
Prerequisite: 12 semester hours of biology.

W 0401 330
INTRODUCTION TO ANIMAL BEHAVIOR 3.0
Concepts and theories of the sensory world of animals and behavioral patterns resulting in environmental adaptations.
Prerequisites: W 0401 130, 131 and 4 additional biology credits or permission of instructor.

W 0401 350
MICROBIOLOGY 4.0
A study of bacteria, yeast, molds and other microorganisms in relation to modern biological concepts and the welfare of man. Standard techniques employed in the laboratory. (3 hrs. lecture, 3 hrs. laboratory)
Prerequisites: W 0401 140, X 1905 120, 121.

W 0401 370
PRINCIPLES OF ECOLOGY 3.0
To acquaint the biology majors with the general principles of ecology, population dynamics and adaptations of plants and animals to the various habitats. (2 hrs lecture, 2 hours laboratory)
Prerequisites: One semester botany and two semesters zoology.

W 0401 409
EXTERNSHIP IN BIOLOGICAL RESEARCH
(COOPERATIVE EDUCATION) 1.0-4.0
Full of part-time work in an established laboratory with a scientific investigator for the duration of the term.
Prerequisite: Approval of Director of Cooperative Education and Biology Department Cooperative Education Coordinator.

W 0401 411
INTRODUCTION TO TRANSMISSION
ELECTRON MICROSCOPY 4.0
Basic theory and practice of electron microscopy, specimen preparation, ultramicrotomy, microscopy, photographic preparation of final print, interpretation of results. (3 hrs. lecture, 3 hrs. laboratory)
Prerequisites: 18 hours biology, N 0499 404 and instructor's permission.

W 0401 414
GENETICS 5.0
Lecture and lab. Hereditary, gene and chromosomal structure and function, gene regulation, mutation and repair, genes in populations, genetic manipulation, and applied genetics are covered. Lab exercises illustrate genetic concepts and include a semester-long project and paper. (Required of all biology majors and minors.)
Prerequisites: W 0401 121, 140; X 1905 120, 121.

W 0401 418
BIOLOGY INDEPENDENT RESEARCH 1.0-4.0
Under the guidance of a sponsor, students will investigate individual problems of appropriate scope. A written and/or oral report is required. (Offered on demand.)
Prerequisites: 15 semester hours of Biology, including W 0401 140; 3.0 G.P.A. in Biology.

W 0401 425
ELEMENTARY PLANT PHYSIOLOGY 4.0
Major physiological processes of the flowering plant: growth, metabolism, photosynthesis, respiration, water relations and mineral nutrition. (Not offered every year.)

W 0401 430
FIELD ORNITHOLOGY 3.0
Identification and natural history of birds in a variety of habitats. Trips on a varying schedule. (Not offered every year.) (1 hr. lecture, 3 hrs. laboratory)

W 0401 432
MEDICAL ENTOMOLOGY 3.0
The study of anthropods that are vectors of diseases afflicting man and domestic animals.
Prerequisites: W 0401 130 or 431.

W 0401 434
INTRODUCTORY MOLECULAR BIOLOGY 3.0
This course is designed to examine the molecular biology of plant and animal cells.
Prerequisites: W 0401 350, 415; X 1905 370.

W 0401 435
EXPERIMENTAL MOLECULAR BIOLOGY 2.0
This laboratory course will introduce biology majors to the basic and important techniques of molecular biology.
Prerequisite: W 0401 434.

W 0401 439
BIOLOGY OF ANIMAL PARASITES 3.0
The basic principles of parasitism. Ecological, morphological, and physiological adaptations for parasitism. Evolution of parasites and integration with the host.
Prerequisite: 1 year of zoology and/or botany. Genetics recommended.

W 0401 440
MAMMALIAN ANATOMY AND HISTOLOGY 4.0
Functional human anatomy at the microscopic and gross level. Laboratory dissection of the cat and study of prepared histological slides. (3 hours lecture, 3 hours laboratory)
Prerequisite: W 0401 131.

W 0401 442
HUMAN PHYSIOLOGY 4.0
Functions of animal organs and systems with emphasis on maintenance of homeostasis.
Prerequisites: W 0401 440 or equivalent.

W 0401 443
VERTEBRATE EMBRYOLOGY 4.0
Developmental anatomy of the vertebrates, especially amphibian, chick and human. General concepts of development and cell differentiation. (Not offered every year.)
Prerequisites: W 0401 130, 131.

W 0401 444
CELL PHYSIOLOGY 3.0
Advanced course in cell function.
Prerequisites: W 0401 442, X 1905 230, 231.

W 0401 445
IMMUNOLOGY 3.0
Cellular and humoral immunal responses, immunoglobulines, antigen-antibody reactions, immunopathology, transplantation and blood transfusion. (Not offered every year.)

W 0401 446
ENDOCRINOLOGY 3.0
Basic anatomy and physiology of the mammalian endocrine glands with special attention directed to the human endocrine glands. The interrelationships between the various endocrines including neural control and the role of these glands in maintaining the homeostasis of the body will be stressed.

W 0401 447
FUNDAMENTALS OF PHARMACOLOGY 3.0
Introduction to the study of chemicals that have biological effect, with special emphasis on those with medical importance.
Prerequisites: X 1905 230, 231, W 0401 442 or permission of instructor.

W 0401 450
MEDICAL MICROBIOLOGY 3.0
The course is designed to acquaint the biology major with those microorganisms which cause disease, the prevention of disease, therapeutic agents to control microbial diseases and the body's natural defense mechanisms.
Prerequisite: W 0401 350 or equivalent.

W 0401 460
BIOLOGICAL OCEANOGRAPHY 3.0
Biological processes within oceans and estuaries are considered in relation to the physical environment. Field and laboratory work. (Not offered every year.)
Prerequisites: W 0401 130, 121.

W 0401 461
LIMNOLOGY 3.0
Biological and physical processes of rivers and lakes. Field work and laboratory. (Not offered every year.)

W 0401 0471
BIOMEDICAL ETHICS 2.0
Seminar course dealing with ethical dilemmas posed by advances in biomedical technology. Background readings in ethics will be followed by discussions of readings on the applications and consequences of modern biomedical research.
Prerequisites: W 0401 415 or 434.

W 0401 490
SELECTED TOPICS IN BIOLOGY 2.0-4.0
Course which will allow the advanced undergraduate student to study a single topic in depth. This course would allow the students an opportunity to integrate the principles of several areas (ecology, physiology, genetics, etc.) of biology in the study of a single topic.

W 0401 0491
RESEARCH IN BIOLOGY LITERATURE 1.0
Each student will survey current biological literature pertinent to a specific problem. A comprehensive report is required. (Not offered every year.)
Prerequisites: 15 semester hours in Biology, including W 0401 140; 3.0 G.P.A. in Biology.

W 0499 404
PLANT AND ANIMAL HISTOLOGICAL TECHNIQUES 3.0
Basic techniques and skills in preparation of permanent microscopic slides of plant and animal tissue. (1 hr. lecture, 3 hrs. laboratory.)
Prerequisite: 12 semester hours of biology.

W 0499 405
CELL CULTURE 3.0
Theory of and practice in working with living cells; tissue culture techniques, cell communication, differentiation, regeneration and aging in several living cell systems.
Prerequisite: All required biology courses (20 hrs.) plus instructor's permission.

W 0499 406
SCANNING ELECTRON MICROSCOPY 3.0
Introduction to theory and practice of scanning electron microscopy. Includes specimen preparation, scanning electron microscope operation, electron specimen interactions/imagery, and microanalysis.

W 1999 220
INTRODUCTION TO MARINE BIOLOGY 4.0
A field and laboratory oriented-course covering the characteristics of marine plants and animals. The course is designed to provide the student with experience in collecting and identifying local marine flora and fauna.

W 1999 433
SEASHORE ORNITHOLOGY 2.0
Field identification of birds of the ocean, salt marsh, sand dunes, and adjacent land areas. Includes discussion of habits and ecology. Offered at NJ Marine Sciences Consortium.
Prerequisite: W 0401 430

W 1999 460
ADVANCED MARINE BIOLOGY 4.0
Interrelationships of marine animals and plants. Ecological response to physical and chemical parameters. Principles such as zonation, succession, ecosystem structure, and physiological response will be examined through lectures, field projects and laboratory study.

W 1999 490
FIELD METHODS IN THE MARINE SCIENCES 4.0
The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the NJ Marine Sciences Consortium. (2 hrs. lecture — 4 hrs. lab.)
Prerequisite: Senior standing in science.

Business Education and Office Systems Administration

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Rosemarie McCauley

There are three major thrusts to the programs offered through the department: Business Education, Office Systems Administration, and Retail Merchandising and Management.

Students in the Business Education programs follow a professional sequence qualifying them for New Jersey teacher certification in a variety of business subjects upon the satisfactory completion of the program and satisfactory achievement on the Supplementary portion of the National Teachers Examination. Four Business Education program specializations are available: Accounting/General Business; Comprehensive; Distributive Education/General Business; and Secretarial/General Business. Documented work experience is required for all specializations. Individualized certification programs are also available to post-graduates who desire initial or additional certification in business education.

Students in the Office Systems Administration program develop skills and competencies that prepare them for a broad spectrum of careers in the office setting related to the areas of information processing, microcomputer applications, records management, systems development, and office administration.

Students in the Retail Merchandising and Management program develop skills and competencies that prepare them for careers as buyers, fashion coordinators, merchandisers, and retail executives. Supervised work experience is an integral part of the program.

The Office Systems Administration program and the Retail Merchandising and Management program are concentrations in Business Administration offered through the Department of Business Education and Office Systems Administration.

All programs lead to a Bachelor of Science degree and are open to high school graduates as well as those who have attended a two year college.

Teacher Education

Professional Sequence:

Teacher Education Collateral Courses:

		Semester Hours
0829 200	Initial Field Experience	1
0829 400	Teacher, School, and Society	3
0829 410	Intermediate Field Experience in Education	1
0830 407	Reading I: Theory and Process	3
0830 408	Reading II: The Content Areas	3
0821 220	Philosophical Orientation to Education	3
0838 273	Introduction to Business Data Processing	3
0838 309	Personal Finance	3
1701 109	Statistics	3
2001 101	General Psychology	3
2001 200	Educational Psychology	3
2204 100	Introduction to Economics	3
Departmental Methods		Variable by Specialization

Also: Documentation of 400–800 hours of full-time work experience or completion of a cooperative education experience.

Professional Semester:

Student Teaching Package 13
(See section on Teacher Education Program)

Business Education Major

Specializations:

Accounting and General Business Education

Required Courses

		Semester Hours
0838 101	Contemporary Business	3
0838 306	Information Systems and Applications	3
0838 335	Computer Applications of Office Systems	3
0845 320	Business Communications	3
0501 261	Legal Environment of Business I	3
0502 201, 202	Fundamentals of Accounting I, II	3 ea.
0502 403	Tax Accounting	3
0504 321	Fundamentals of Finance	3
0506 311	Management Process and Organizational Behavior	4
0506 439	Business Policy	3
0509 340	Introduction to Marketing	3

Comprehensive Business Education:

Required Courses

		Semester Hours
0838 101	Contemporary Business	3
0838 203	Production Typewriting	1
0838 303	Advanced Stenography and Transcription	2
0838 306	Information Systems and Applications	3
0838 335	Computer Applications of Office Systems	3
0838 402	Principles and Methods of Teaching Accounting	2
0845 207	Word Processing Applications	3
0845 320	Business Communications	3
0501 261	Legal Environment of Business I	3
0502 201, 202	Fundamentals of Accounting I, II	3 ea.
0502 403	Tax Accounting	3
0504 321	Fundamentals of Finance	3
0506 311	Management Process and Organizational Behavior	4
0506 439	Business Policy	3
0509 340	Introduction to Marketing	3

Distributive Education and General Business Education

Required Courses

		Semester Hours
0838 101	Contemporary Business	3
0838 401	Principles and Methods of Teaching General Business	2
0844 208	Salesmanship	3
0844 249	Merchandise Information	2
0844 307	Retail Store Merchandising and Management	3
0844 308	Visual Merchandising	3
0844 309	Buying for Distribution	2
0844 348	Practicum in Distributive Education I	1
0844 450, 451	Supervised Work Experience and Seminar I, II	2 ea.

0844 454 Principles & Methods of Teaching Distributive Education....3
0844 455 Curriculum Development of Distributive Education....3
0988 411 Principles and Philosophy of Vocational Education....1
0501 261 Legal Environment of Business I....3
0502 201, 202 Fundamentals of Accounting I, II....3 ea.
0504 321 Fundamentals of Finance....3
0506 311 Management Process and Organizational Behavior....4
0506 439 Business Policy....3
0509 340 Introduction to Marketing....3

Secretarial and General Business Education

Required Courses

		Semester Hours
0838 101	Contemporary Business	3
0838 203	Production Typewriting	1
0838 303	Advanced Stenography and Transcription	2
0838 306	Information Systems and Applications	3
0838 335	Computer Applications of Office Systems	3
0845 207	Word Processing Applications	3
0845 320	Business Communications	3
0501 261	Legal Environment of Business I	3
0502 201, 202	Fundamentals of Accounting I, II	3 ea.
0504 321	Fundamentals of Finance	3
0506 311	Management Process and Organizational Behavior	4
0506 439	Business Policy	3
0509 340	Introduction to Marketing	3

Teacher Certification

Students wishing certification must be accepted into the Teacher Education program. They must follow the professional sequence outlined both in this department and elsewhere in the catalog.

Business Administration

Office Systems Administration Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration.

Required Courses

		Semester Hours
0838 306	Information Systems and Applications	3
0838 335	Computer Applications of Office Systems	3
0845 308	Principles of Office Management	3
0845 309	Word/Information Processing Management	3
0845 320	Business Communications	3
0845 321	Records Management	3
0845 411	Managing Automated Office Systems	3
0845 430	Seminar in Office Systems Administration	3
0501 261	Legal Environment of Business I	3
0502 201, 202	Fundamentals of Accounting I, II	3 ea.
0504 321	Fundamentals of Finance	3
0506 311	Management Process and Organizational Behavior	4
0506 316	Human Resource Management	3
0506 439	Business Policy	3
0509 340	Introduction to Marketing	3

Collateral Courses

0838 273	Introduction to Business Data Processing	3
1701 109	Statistics	3
2001 101	General Psychology	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Electives Within the Major 6

Non-Business Electives 14

Retail Merchandising and Management Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration:

Required Courses

		Semester Hours
0844 208	Salesmanship	3
0844 249	Merchandise Information	2
0844 308	Visual Merchandising	3
0844 307	Retail Store Merchandising and Management	3
0844 309	Buying for Distribution	2
0844 348	Practicum in Distributive Education I	1
0844 450, 451	Supervised Work Experience and Seminar I, II	2 ea.
0844 482	Independent Owned and Franchised Retailer	3
0844 483	Seminar in Retail Management	3
0501 261	Legal Environment of Business I	3
0502 201, 202	Fundamentals of Accounting I, II	3 ea.
0504 321	Fundamentals of Finance	3
0506 311	Management Process and Organizational Behavior	4
0506 439	Business Policy	3
0509 340	Introduction to Marketing	3
0509 442	Marketing Research	3
0509 446	Marketing Strategy and Implementation	3

Collateral Courses

		Semester Hours
0838 273	Introduction to Business Data Processing	3
1701 109	Statistics	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Electives Within the Major 8

Non-Business Electives 9

Courses of Instruction

B 0838 101
CONTEMPORARY BUSINESS 3.0
The organization and operation of contemporary business is explored. Students study the operation of the free enterprise system, alternative economic systems, and the various functional areas of business: finance, management, production, and marketing.

B 0838 103
BEGINNING KEYBOARDING 3.0
Beginning keyboarding is designed for those students who have had no previous keyboarding instruction. The course offers basic instruction on the alpha-numberic keyboard in learning the touch method of keyboarding, as well as in developing skill in using the keyboard for communication and information processing, e.g., preparation of basic business and personal letters, business reports, tables and other related applications. The course meets four periods per week.

B 0838 104
INTERMEDIATE KEYBOARDING 3.0
This course is designed for students who have had previous keyboarding instruction. Students will develop increased speed and accuracy and will apply their keyboarding skill in the production of business-related projects. The ultimate aim is to develop proficiency in keyboarding applications. The course meets four periods a week.
Prerequisite: B 0838 103.

B 0838 203
PRODUCTION TYPEWRITING 1.0
Taken in conjunction with methods of teaching typewriting. The technicalities of typewriting procedures; vocational competency in production typewriting.
Prerequisite: B 0838 104.

B 0838 273
INTRODUCTION TO BUSINESS
DATA PROCESSING 3.0
This course introduces the student to the literature and vocabulary of business data processing—input and output media, to types of equipment, installations, job analysis, and systems development. The range covered extends from basic manual procedures to modern computer concepts and business problem programming in the BASIC language.

B 0838 303
ADVANCED STENOGRAPHY AND TRANSCRIPTION 2.0
Taken in conjunction with methods of teaching shorthand. The transcription of shorthand notes into typewritten copy. Sentence structure, correct grammar, spelling and good typewriting techniques; increasing dictation speed for new material as the course progresses.
Prerequisite: B 0838 206.

B 0838 306
INFORMATION SYSTEMS AND APPLICATIONS 3.0
Designed to provide applications of office automation technologies from the user's perspective. Self-developmental applications involving information interchange, experiences in using technology to enhance communication effectiveness, and opportunities to create system documentation for instruction and/or training are an integral part of the course.

B 0838 309
PERSONAL FINANCE 3.0
The role of the consumer in the economy is studied by emphasizing how government and business policies, laws, and practices affect the consumer and his standard of living. Government regulatory laws and regulations, government policies on the control of money and inflation and how they affect the consumers are discussed. Business and labor policies and practices are emphasized in the areas of credit, savings, and housing.

B 0838 335
COMPUTER APPLICATIONS OF OFFICE SYSTEMS 3.0
A course designed to prepare students to make decisions in the selection and utilization of microcomputer systems and appropriate software for a business environment based on identified needs; the factors to consider in the implementation of microcomputers at different levels of an organization; and the characteristics of specific software applications used in the business environment. The course also provides students with hands-on experience with commercial software packages and additional work in the structured programming cycle, including the coding and testing of programs using the BASIC programming language.
Prerequisites: B 0838 273, majors only.

B 0838 390
BUSINESS INDEPENDENT STUDY I 2.0
Each student, under the guidance of a faculty sponsor, conducts an in-depth study of a current problem in the business education field and presents a written report of the findings. Admission by application submitted to the department chairperson.

B 0838 391
BUSINESS INDEPENDENT STUDY II 2.0
Each student, under the guidance of a faculty sponsor, is to conduct an in-depth study of a current problem in the business field. A written report of the findings of the study is to be presented. Admission is by application submitted to the department chairperson.

B 0838 401
PRINCIPLES AND METHODS OF TEACHING
GENERAL BUSINESS 2.0
The methodology of teaching social business subjects, including general business, business law and consumer education. Content, lesson planning, visual aids and evaluation procedures.
Prerequisite: 12 semester hours of general business courses.

B 0838 402
PRINCIPLES AND METHODS OF TEACHING
ACCOUNTING 2.0
The history and development of accounting instruction and materials, aims and objectives in light of current trends. Textbook selection, lesson planning, classroom procedures, tests and measurements, audio-visual and other teaching aids. A test of subject matter competency is required.
Prerequisite: 9 semester hours of accounting.

B 0838 403
PRINCIPLES AND METHODS OF TEACHING
STENOGRAPHY 1.0
Complements B 0838 303 and is designed to prepare secretarial teachers for the teaching of stenography and transcription. Comprehensive coverage of the materials and methods for teaching stenography.
Prerequisite: B 0838 206.

B 0838 404
PRINCIPLES AND METHODS OF TEACHING
KEYBOARDING/TYPEWRITING 1.0
Complements B 0838 204 and deals with the techniques of teaching beginning and advanced typewriting; emphasis on the psychology of skill development.
Prerequisite: B 0838 203.

B 0830 409
BUSINESS EDUCATION PROFESSIONAL SEMINAR 1.0
Provides a forum for dialogue on problems and concerns in achieving effectiveness in the student teaching experience and subsequent related business education teaching.
Prerequisite: B 0838 401.

B 0844 208
SALESMANSHIP 3.0
The role of personal selling in our economy and the diversity of sales positions are explored. Theories and concepts derived from the behavorial sciences are presented to develop an understanding of consumer behavior and basic selling techniques. Students apply their newly acquired selling skills in mock sales demonstrations.

B 0844 249
MERCHANDISE INFORMATION 2.0
Textile and non-textile information; background selling information needed in retailing. Standards for determining quality of products and a knowledge of how to care for them. Manufacturing processes of various products.

B 0844 307
RETAIL STORE MERCHANDISING AND
MANAGEMENT 3.0
Problems involved in the successful operation of a retail organization, preparation of the store for business, movement of merchandise from resource to store, preparation of merchandise for sale, movement of goods to the selling floor and to the customer.

B 0844 308
VISUAL MERCHANDISING 3.0
The uses of color, line, and design principles to present and sell merchandise are explored. Students study and use basic visual merchandising techniques, tools, and equipment to design and build merchandise displays.

B 0844 309
BUYING FOR DISTRIBUTION 2.0
Functions of the merchandising division; the buyer and merchandising problems. Also customer demand analysis, comparison shopping, planning the buyer's budget. Buying fashions, staples for independent, chain and resident buying offices, and foreign buying.

B 0844 348
PRACTICUM IN RETAILING/
DISTRIBUTIVE EDUCATION 1.0
Students participate in the ongoing activities of the college's DECA chapter; observe current retail practices during prearranged field trips to stores, fashion houses, and distribution centers; and interview local retail executives and distributive education teachers.

B 0844 450
SUPERVISED WORK EXPERIENCE AND SEMINAR I 2.0
Full-time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited-price variety store. Weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer, following sophomore and junior years.
Prerequisites: B 0844 208, F 0509 341, majors only.

B 0844 451
SUPERVISED WORK EXPERIENCE AND SEMINAR II 2.0
Full time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited price variety store, weekly evening seminar on store activities and the development executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer following sophomore and junior years.
Prerequisites: B 0844 208, F 0509 341.

B 0844 454
PRINCIPLES AND METHODS OF TEACHING
DISTRIBUTIVE EDUCATION AND COORDINATION 3.0
Federal legislation as it relates to the program; coordinator's duties; methods of teaching store subjects; lecture and demonstrations in teaching forms, reports and manuals; planning the lesson; human relations for store personnel; visual aids; textbook evaluation; trade journal use; and the DE club as a teaching device.
Prerequisite: B 0844 455.

B 0844 455
CURRICULUM DEVELOPMENT OF
DISTRIBUTIVE EDUCATION 3.0
Objectives of distributive education; organizing, administering, planning and supervising a complete cooperative program. Organization of vocational education on the federal, state and local levels; developing vocational competencies in curriculum; evaluation of curriculum; surveys of community and student needs; physical equipment requirements; advisory committees; and the use of public relations and extension programs.

B 0844 482
THE INDEPENDENT OWNED AND
FRANCHISED RETAILER 3.0
The principles and problems related to the independent and franchised retailer are discussed in the theoretical and practical perspective. Lecture, research and case problems will integrate all steps from starting the business to evaluating the problems related to the business.
Prerequisites: B 0844 307, 309; Majors only.

B 0844 483
SEMINAR IN RETAIL MERCHANDISING AND
MANAGEMENT 3.0
Advanced problems in retail merchandising are covered. Lectures, research, visiting experts and case problems will integrate all previous courses taught. Strong emphasis will be placed on fashion and the computer in today's retail scene.
Prerequisites: B 0844 307, 309; retail majors only.

B 0845 207
WORD PROCESSING APPLICATIONS 3.0
Enables students to develop competencies in handling word processing equipment by means of hands-on experiences using automated typewriters, text-editing equipment, and machine dictation/equipment. Simulation projects will be utilized to integrate the origination, workflow, work measurement, storage, and distribution procedures unique to word processing environments.
Prerequisite: B 0838 104, majors only.

B 0845 230
INTRODUCTION TO BUSINESS WORK
EXPERIENCE 4.0-8.0
This is an introductory cooperative education course which integrates formal classroom study and assignments with a supervised full-time or part-time off campus employment experience. The purpose of this course is to develop self awareness and explore educational and occupational alternatives.
Prerequisite: Sophomore level status, with 2.25 minimum grade point average.

B 0845 308
PRINCIPLES OF OFFICE MANAGEMENT 3.0
A study of the most acceptable methods and practices of office administration. Topics include organization and planning of office systems, leadership and human relations, controlling operations, and processing of information. Emphasis throughout the course will be on achieving satisfactory human relations and continuous cost reduction.

B 0845 309
WORD/INFORMATION PROCESSING MANAGEMENT 3.0
An understanding of the need and effect of word processing on business productivity. Word processing systems will be investigated with emphasis on personnel, equipment needs, and cost savings.

B 0845 320
BUSINESS COMMUNICATIONS 3.0
This course is designed to equip the students with a package of written and oral communication techniques applicable to the business world.

B 0845 321
RECORDS MANAGEMENT 3.0
Includes study of the criteria and methods by which records are created, stored, retrieved, retained and disposed, as well as attention to study of the managerial considerations necessary for effective selection and utilization of equipment, procedures, and personnel.

B 0845 330
OFFICE SYSTEMS ADMINISTRATION PROFESSIONAL
WORK EXPERIENCE PROGRAM 4.0-8.0
This is a cooperative education course specifically for Office Systems Administration majors. The course integrates formal classroom study and assignments with supervised full-time off-campus employment. It has as its primary goals the development of occupational competencies and pre-professional training.
Prerequisites: Junior or senior status; a 2.45 grade point average; satisfactory completion of 0845 0230 or the equivalent of 6 months of verified full-time work experience; office systems administration major declaration for one prior semester plus the completion of 6 semester hours from the office systems administration core courses.

B 0845 411
MANAGING AUTOMATED OFFICE SYSTEMS 3.0
Needed competencies for organizing and administering an automated office system will be emphasized. A systematic approach to designing, implementing, controlling, and integrating electronic office systems will be stressed. Various configurations, available technology and evaluation methods for assessing present and future systems will be investigated.
Prerequisites: B 0838 306, 335; 0845 309, 321.

B 0845 430
SEMINAR IN OFFICE SYSTEMS ADMINISTRATION 3.0
Current developments in office systems administration will be investigated by student research teams in contemporary administrative office environments. Emphasis will be on helping students develop investigative and analytical skills.
Prerequisites: B 0838 306, 335; 0845 309, 321.

Chemistry

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: John L. Isidor

A student who chooses the chemistry major can prepare for graduate study in chemistry or biochemistry, professional employment, professional education in fields related to science, or teacher certification. The courses meet the undergraduate criteria established by the American Chemical Society (ACS). The chemistry major is included in the ACS list of approved programs. The student can complete ACS requirements and be certified to the Society upon graduation.

The curriculum is designed for students who have had high school chemistry, biology and physics, as well as four years of high school mathematics.

The department sponsors a challenging honors program for chemistry majors with outstanding academic records (at least 3.70 grade point average), an undergraduate research program and offers cooperative education work experiences. Those interested should see the department chairperson for information.

A Bachelor of Science degree is awarded to graduates in the chemistry major.

Chemistry Major

Required Courses

		Semester Hours
1905 120, 121	General Chemistry I, II	8
1905 230, 231	Organic Chemistry I, II	6
1905 232, 233	Experimental Organic Chemistry I, II	4
1905 310	Analytical Chemistry	5
1905 311	Instrumental Methods of Analysis	4
1905 340, 341	Physical Chemistry I, II	6
1905 343	Experimental Physical Chemistry	2
1905 495	The Chemical Literature	1-2

Collateral Courses

Two Mathematics courses:
1701 122, 221 Calculus I, II
1701 420 Differential Equations 8
Two Physics courses:
Z 1902 191, 192 General Physics I, II 8

Electives (Major) 6

Select 6 semester hours from the appropriate list to be obtained from the department.

Chemistry Minor

Required Courses

		Semester Hours
1905 120, 121	General Chemistry I, II	8
1905 230, 231	Organic Chemistry I, II	6
1905 232, 233	Experimental Organic Chemistry I, II	4

Select one set

1905 310	Analytical Chemistry	5
1905 340, 343	Physical Chemistry I, and Experimental Physical Chemistry	5
1905 423, 422	Advanced Inorganic Chemistry and Experimental Inorganic Chemistry	6
or		
1905 370, 372	Biochemistry, and Experimental Biochemistry	5

Special Program Requirements

Semester Hours

B.S. in Chemistry with American Chemical Society Certification 10

In addition to taking the course requirements in the chemistry major program as detailed in I, a student who wishes to fulfill the minimum requirements for professional training of the American Chemical Society should elect the following courses:

1. **One of the following courses:***
   - 1905:0410 Advanced Analytical Chemistry 3
   - 1905:0430 Advanced Organic Chemistry 3
   - 1905:0440 Advanced Physical Chemistry 3
2. **1905:0423 Advanced Inorganic Chemistry 3**
3. **One of the following:**
   - 1905:0498 Senior Laboratory 3
   - 1905:0499 Undergraduate Research ..... (minimum) 3

*Courses used to fulfill the elective requirement C for the chemistry major cannot also be used to fulfill requirement #1 for ACS Certification. This restriction does not apply to ACS Certification requirements 2 and 3.

The learning of certain other skills may be essential in an undergraduate chemistry program. This decision must be made by the student and his advisor. Included in this group are:

Foreign Language: a reading knowledge of German, Russian or French.

Mathematics: Linear algebra.

Computer Science: programming ability in BASIC and FORTRAN.

Honors Program in Chemistry

Chemistry majors can apply for admission to the honors program in chemistry during their sophomore or junior years. Students accepted into the program will be required to take (in addition to the regular chemistry major) the following courses:

		Semester Hours
1905 491	Honors Seminar in Chemistry	2
1905 492	Honors Thesis in Chemistry	2

Interested students should contact the department chairperson.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. In addition, for the Comprehensive Science and Physical Science certificates, one biology course and Z 0834 0401 The Teaching of Science in Secondary Schools must be taken.

Second Teaching Field in Physical Science

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Students majoring in a field other than chemistry and who desire certification in chemistry may take the physical science program. In addition to the certification program in their major field, the students must take the following courses:

1902 191, 192 General Physics I, II 8
Advanced Physics Course 4
1905 120, 121 General Chemistry I, II 8
1905 230 Organic Chemistry I 3
Two courses representing two areas from: Astronomy, Geology, Meteorology, Oceanography 8
0834 401 The Teaching of Science in Secondary Schools 4

Courses of Instruction

X 1905 100
INTRODUCTORY CHEMISTRY 4.0
An introductory lecture and laboratory survey course in modern chemistry for non-science majors.

X 1905 107
COLLEGE CHEMISTRY I 2.0
Introductory chemistry course for non-science majors. Fundamentals of inorganic chemistry.

X 1905 108
COLLEGE CHEMISTRY II 2.0
Introductory chemistry course for non-science majors. Fundamentals of organic and biochemistry.
Prerequisite: X 1905 107.

X 1905 109
COLLEGE CHEMISTRY LABORATORY I 1.0
Laboratory work to reinforce basic concepts of inorganic chemistry. Two hour laboratory.
Concurrent with X 1905 107.

X 1905 110
COLLEGE CHEMISTRY LABORATORY II 1.0
Laboratory work to reinforce basic concepts of organic chemistry and biochemistry. Two hour laboratory.
Concurrent with X 1905 108.
Prerequisite: X 1905 109.

X 1905 111
ELEMENTS OF CHEMISTRY I 3.0
Basic concepts of chemistry as applied to inorganic and organic compounds.

X 1905 112
ELEMENTS OF CHEMISTRY II 3.0
A study of human biochemistry with emphasis on biomolecules, metabolism, and bioenergetics.
Prerequisite: X 1905 111.

X 1905 120
GENERAL CHEMISTRY I 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, stoichiometry, states of matter, solutions, and selected topics in descriptive inorganic chemistry. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Prerequisite: Instructor's permission or previous chemistry course.

X 1905 121
GENERAL CHEMISTRY II 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to thermochemistry, kinetics; general acid base, precipitation, redox equilibria, electrochemistry and selected topics in descriptive inorganic chemistry. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Prerequisites: X 1905 120.

X 1905 130
FUNDAMENTALS OF ORGANIC CHEMISTRY 4.0
Survey of organic chemistry covering all major classes, nomenclature, and characteristic class reactions. (3 hrs. lecture, 2 hrs. laboratory.)
Prerequisite: X 1905 107 or equivalent.

X 1905 195
PROBLEM SOLVING — GENERAL CHEMISTRY 1.0
Course designed to help students in application of elementary arithmetic with emphasis on individual needs.

X 1905 230
ORGANIC CHEMISTRY I 3.0
Structure and bonding in organic compounds: nomenclature, reactions, properties, and aromatic compounds: stereochemistry; structure analysis by IR, NMR, UV, and MS; introduction to molecular orbital theory.
Prerequisite: X 1905 121.

X 1905 231
ORGANIC CHEMISTRY II 3.0
Nomenclature, reactions, properties, and synthesis of ethers, epoxides, alcohols, amines, and carbonyl compounds; carbohydrates; amino acids, peptides and proteins; pericyclic reactions; synthetic polymers.
Prerequisite: X 1905 230.

X 1905 232
EXPERIMENTAL ORGANIC CHEMISTRY I 2.0
A laboratory course to be taken concurrently with X 1905 230. Basic techniques for the separation. Analysis and synthesis of organic compounds; recrystallization, distillation, extraction, GC, HPLC, TLC, GC/MS, IR, H/C13-NMR, chemical safety methods and regulations.
Prerequisite: X 1905 121. Corequisite: X 1905 230.

X 1905 233
EXPERIMENTAL ORGANIC CHEMISTRY II 2.0
A laboratory course to be taken concurrently with X 1905 231 and after completion of X 1905 232. Basic techniques for organic synthesis, mechanistic studies, separation and analysis, and chemical safety: multister syntheses, spectral data-base searching, phase-transfer catalysis, anhydrous procedures, analysis of unknowns by wet-chemical and spectral methods.
Prerequisites: X 1905 232. Corequisites: X 1905 231.

X 1905 270
FUNDAMENTALS OF BIOCHEMISTRY 5.0
Structure and function of the biomolecules and the metabolic interrelationships in the cell. (4 hrs. lecture, 3 hrs. laboratory)
Prerequisite: X 1905 130.

X 1905 310
ANALYTICAL CHEMISTRY 5.0
Introduction to concepts of classical analytical chemistry including evaluation of data and apparatus, theory and application of volumetric and gravametric and methods and redox equilibrium and introduction to electrical methods.
Prerequisites: X 1905 231, 233.

X 1905 311
INSTRUMENTAL ANALYSIS 4.0
Introduction to application of instrumental methods of analytical chemistry. Instrument techniques studies will include spectrophotometry, electroanalytical chemistry, chromatography, nuclear magnetic resonance and mass spectrometry. Theory and application will be examined in lecture and laboratory.
Prerequisites: X 1905 310, X 1905 340.

X 1905 320
ENVIRONMENTAL CHEMICAL ANALYSIS 3.0
A study of the sources, reactions, transport, effects, and fates of chemical species in the environment. Lecture and laboratoy will stress the theory, methodology, instrumentation, and techniques of air, water, and soil analysis for contaminents. (Two hours of lecture and two hours of laboratory.)
Prerequisite: X 1905 233.

X 1905 340
PHYSICAL CHEMISTRY I 3.0
Thermodynamics, homogeneous and heterogeneous equilibria, gases, electrochemistry, solutions, colligative properties.
Prerequisites: X 1905 231, Z 1902 192, Y 1701 222.

X 1905 341
PHYSICAL CHEMISTRY II 3.0
Kinetics, photochemistry, molecular physical chemistry.
Prerequisites: X 1905 340, Z 1902 192, Y 1701 222.

X 1905 343
EXPERIMENTAL PHYSICAL CHEMISTRY 2.0
A laboratory course to be taken concurrently with X 1905 341. Application and experience with experimental techniques of physical chemistry. Students will perform experiments in calorimetry, measurement of thermodynamic variables, electro-chemical phenomena and kinetics. Analysis of experimental data, statistics and applications of micro-computers will be included.
Prerequisites: X 1905 231, X 1905 340, Y 1701 222, Z 1902 192. Corequisite: X 1905 341.

X 1905 370
BIOCHEMISTRY 3.0
Proteins, enzymes, nucleic acids, carbohydrates, lipids, organization of the living cell, intermediate metabolism and biosynthesis.
Prerequisite: X 1905 231.

X 1905 372
EXPERIMENTAL BIOCHEMISTRY 2.0
Laboatory studies of carbohydrates, lipids, and proteins, enzyme action, using biochemical techniques.
Prerequisites: X 1905 231, 232, 370.

X 1905 423
ADVANCED INORGANIC CHEMISTRY 3.0
Physical basis of inorganic structure and reactivity. Electronic structure of atoms, ionic and covalent bonding, acid/base chemistry, the chemistry of aqueous and nonaqueous solutions, coordination chemistry and chemical periodicity.
Prerequisite: X 1905 340.

X 1905 430
ADVANCED ORGANIC CHEMISTRY 3.0
Consideration of structural and electronic theories which form the basis of organic chemistry.
Prerequisite: X 1905 231.

X 1905 490
SELECTED TOPICS IN CHEMISTRY 2.0-3.0
In-depth study of a modern aspect of chemistry.
Prerequisite: X 1905 231, instructor's permission.

X 1905 491
HONORS SEMINAR IN CHEMISTRY 2.0
Seminars and discussions on selected areas in chemistry under faculty guidance for students enrolled in the honors progam in chemistry.
Prerequisite: Admission to the honors program in chemistry or permission of the chemistry honors committee.

X 1905 492
HONORS THESIS IN CHEMISTRY 2.0
Preparation and oral presentation of a comprehensive written thesis in chemistry under guidance of a faculty mentor for completion of the honors program in chemistry.
Prerequisite: X 1905 491.

X 1905 495
THE CHEMICAL LITERATURE 1.0-2.0
The chemical literature and techniques of extracting information from it.
Prerequisite: X 1905 230 or equivalent, or instructor's permission.
Corequisite: X 1905 231. Full participation in Chemistry Department's seminar program is required.

X 1905 498
SENIOR LABORATORY 3.0
Multi-disciplinary laboratory study of the synthesis, separation, and characterization of chemical compounds.
Prerequisite: X 1905 311, 341, 343.

X 1905 499
UNDERGRADUATE RESEARCH 1.0-3.0
Laboratory work on a specific problem in chemistry under guidance of a faculty sponsor.
Prerequisites: 27 hrs. in chemistry and instructor's permission.

Classics

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Timothy Renner

Classical studies are an excellent foundation for a wide variety of careers, including law, business, medicine, journalism, diplomacy, teaching and many others. The department offers three major programs leading to the Bachelor of Arts degree: Classics, a broad major in ancient civilization; Latin, which emphasizes literature in the original language and includes work in Greek; and Latin (Teacher Education), which leads to teacher certification in New Jersey. Minors in Classics, Latin, Greek, and (with the cooperation of other departments) archaeology are also available. Students going on to graduate school in classics may need to take additional work in the languages and should consult the department about this.

Students majoring in other areas can profit from a knowledge of ancient culture and of Greek or Latin. For example, studying the ancient languages often helps to improve one's command of English. Also, a basic familiarity with Greek and Roman literature, history, archaeology, religion, or law can provide a new and different perspective on contemporary civilization.

Classics Major

Required Courses

		Semester Hours
4903 281	Greek Civilization	3
4903 282	Roman Civilization	3

Electives (Major)

A. Select 5 courses from Latin (1109) and Greek (1110), including at least one course at the 200 level or above* 15
B. Select 12 semester hours (including at least two classical studies topics courses) from the appropriate list to be obtained from the department 12

Latin Major

Required Courses

Semester Hours

1110 101, 112 Beginning Greek I, II 6
6 Latin language and literature courses at the 200 level or above, including at least two of the following: 1109 201 Latin Literature of the Republic, 1109 202 Latin Literature of the Golden Age, 1109 203 Latin Literature of the Silver Age* 18

Electives (Major)

Select 3 courses from departmental list (4903 281 Greek Civilization, 4903 282 Roman Civilization, and other 4903 courses dealing with ancient history, archaeology, and classical civilization are especially recommended 9

Latin Major
(Teacher Education)

Required Courses

6 Latin language and literature courses at the 200 level or above, including at least two of the following: 1109 201 Latin Literature of the Republic, 1109 202 Latin Literature of the Golden Age, 1109 203 Latin Literature of the Silver Age* 18
1109 419 Methods of Teaching Latin 3

Electives (Major)

Select 4 courses from departmental list (1110 101, 112 Beginning Greek I, II; 4903 281 Greek Civilization; and 4903 282 Roman Civilization are especially recommended) 12
*Latin courses at the 200 level and above are taught on a four-year cycle.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog.

Second Teaching Field in Latin

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers' Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

Latin Minor

Students will take 18 semester hours in Latin language and literature (1109), to be chosen in consultation with a faculty advisor from the department.

Greek Minor

Students will take 18 semester hours in Greek language and literature (1110), to be chosen in consultation with a faculty advisor from the department.

Classics Minor

Students will take 18 semester hours in the department. All the work may be done in classical civilization and humanities courses, or the student may pursue studies in Greek and Latin language and literature.

Courses of Instruction

Latin

K 1109 101
BEGINNING LATIN I 3.0
The fundamentals of classical Latin grammar. Reading of simple Latin texts.

K 1109 112
BEGINNING LATIN II 3.0
The continuation of Beginning Latin I. Fundamentals of Latin grammar and reading of selected Latin texts.
Prerequisite: K 1109 101 or equivalent.

K 1109 121
INTERMEDIATE LATIN I 3.0
Review of grammar. Selected readings from Latin prose and poetry.
Prerequisites: K 1109 112 or equivalent.

K 1109 132
INTERMEDIATE LATIN II 3.0
Review of grammar. Selected readings from Latin prose and poetry.
Prerequisites: K 1109 121 or equivalent.

K 1109 201
LATIN LITERATURE OF THE REPUBLIC 3.0
A historical survey of the highlights of Latin literature from its beginnings to the death of Cicero. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context.
Prerequisite: K 1109 132 or equivalent.

K 1109 202
LATIN LITERATURE OF THE GOLDEN AGE 3.0
A historical survey of the highlights of Latin literature from the Second Triumvirate through the early Julio-Claudian period. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context.
Prerequisites: K 1109 132 or equivalent.

K 1109 203
LATIN LITERATURE OF THE SILVER AGE 3.0
A historical survey of the highlights of Latin literature from the Neronian period through the second century of the Christian era. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context.
Prerequisite: K 1109 132 or equivalent.

K 1109 204
LATIN LITERATURE OF THE MIDDLE AGES 3.0
The highlights of Latin literature from the disintegration of the Roman Empire in the West to the beginning of the Renaissance. Selections from poetry, history, philosophy, theology, and popular literature will be read with attention to style, development of the language, and historical context.
Prerequisite: K 1109 132 or equivalent.

K 1109 251
ROMAN LETTER WRITING 3.0
The public figure and the private citizen seen through the letters of Cicero and Pliny. The letters as evidence for Roman political and social history.
Prerequisite: K 1109 132 or equivalent.

K 1109 252
ROMAN DRAMA 3.0
Selected comedies of Plautus and Terence with attention to style, form, dramatic technique, and literary ancestry. The influence of Roman comedy on subsequent European drama.
Prerequisite: K 1109 132 or equivalent.

K 1109 253
THE EPIC AND VERGIL 3.0
Readings primarily from the *Aeneid* but including selections from the *Georgics* and *Eclogues*. Vergil as a literary artist and his role in the development of the epic in western literature.
Prerequisite: K 1109 132 or equivalent.

K 1109 254
ROMAN LYRIC POETRY 3.0
Readings from the lyrics of Catullus and Horace, with particular emphasis on style, themes, and metrics.
Prerequisite: K 1109 132 or equivalent.

K 1109 255
OVID 3.0
Selections from Ovid's works, principally the *Metamorphoses, Ars Amatoria, Amores,* and *Heroides*. Ovidian style, humor, and use of literary myth. Ovid's influence on literature and the arts.
Prerequisite: K 1109 132 or equivalent.

K 1109 284
CICERO AND ANCIENT PHILOSOPHY 3.0
Cicero's philosophical essays with special attention to his role as a transmitter of Greek philosophy to the Roman and later western world.
Prerequisites: K 1109 132 or equivalent.

K 1109 310
LATIN COMPOSITION 3.0
Practice in writing Latin prose in conjunction with review of grammar. Readings in selected Latin authors with a view toward acquiring familiarity with different prose styles.
Prerequisites: K 1109 132 or equivalent.

K 1109 351
ROMAN HISTORIANS 3.0
Selected readings from Sallust, Livy, and Tacitus. The development of Roman historiography in the context of Roman history and the Greek historiographical background.
Prerequisite: K 1109 132 or equivalent.

K 1109 352
ROMAN SATIRE 3.0
Readings from Horace, Juvenal, Petronius, and others. Different forms and definitions of satire. The Latin contribution to satire in western literature.
Prerequisite: K 1109 132 or equivalent.

K 1109 361
CAESAR: THE END OF THE REPUBLIC 3.0
Selected readings from the *De Bello Gallico* and *De Bello Civili*. Caesar as a politician, general, man of letters, and historical source on his own conquests.
Prerequities: K 1109 132 or equivalent.

K 1109 410
ADVANCED LATIN GRAMMAR 3.0
Linguistic analysis of Latin grammar based on examples from classical authors. Practice in writing Latin prose.
Prerequisite: One Latin course at the 200 level or above; or permission of instructor.

K 1109 419
METHODS OF TEACHING LATIN 3.0
The history of methodology together with new approaches and techniques. The development of a Latin curriculum, including evaluation of textbooks and construction of lesson plans, reviews, and tests.
Prerequisite: Three Latin courses at the 200 level or above.

K 1109 445
LINGUISTIC HISTORY OF THE LATIN LANGUAGE 3.0
Latin and its position in the Indo-European family; the evolution from the spoken to the literary, to the vulgar, to the Christian; characteristics of the periods exemplified in the language; transitional features in the phonology, morphology, and syntax.

K 1109 478
ADVANCED LATIN READINGS: SELECTED TOPICS 3.0
Intensive reading and critical study of a selected author, genre, period, or theme in Latin literature. Topic to be announced each semester. May be repeated for credit with different topics.
Prerequisite: Permission of the department.

Greek

K 1110 101
BEGINNING GREEK I 3.0
The fundamentals of ancient Greek grammar. Reading of simple texts.

K 1110 112
BEGINNING GREEK II 3.0
The continuation of Beginning Greek I. The fundamentals of grammar and reading of selected texts.
Prerequisite: K 1110 101 or equivalent.

K 1110 121
INTERMEDIATE GREEK I 3.0
Review of grammar. Selected readings from Greek prose and poetry.
Prerequisite: K 1110 112 or equivalent.

K 1110 132
INTERMEDIATE GREEK II 3.0
Review of grammar. Selected readings from Greek prose and poetry.
Prerequisite: K 1110 121 or equivalent.

K 1110 261
GREEK NEW TESTAMENT 3.0
Selected readings from the New Testament with attention to historical context and to the nature and development of Koine Greek.
Prerequisite: K 1110 132 or equivalent.

K 1110 262
GREEK EPIC POETRY 3.0
Representative selections from the *Iliad* and *Odssey*. Homer as an oral poet.
Prerequisite: K 1110 132 or equivalent.

K 1110 351
ATTIC ORATORS 3.0
Representative works of Lysias, Isocrates, Demosthenes, and others. The orators as stylists and as a source for political and social history.
Prerequisite: K 1110 132 or equivalent.

K 1110 352
GREEK TRAGEDY 3.0
Selected plays of Aeschylus, Sophocles, and Euripides. The metrics, style, themes, and structure of Attic tragedy. The influence of the Greeks on western drama.
Prerequisite: K 1110 132 or equivalent.

K 1110 361
GREEK HISTORIANS 3.0
Readings from Herodotus, Thucydides, and Xenophon. The development of Greek historiography as a literary genre and as a medium for reporting events.
Prerequisite: K 1110 132 or equivalent.

K 1110 451
GREEK PHILOSOPHERS 3.0
Selected readings, especially from Plato's dialogues concerning the trial and death of Socrates. The Greek philosophical tradition and its development in the Archaic and Classical periods.
Prerequisite: K 1110 132 or equivalent.

K 1110 452
GREEK LYRIC POETS 3.0
Readings from the principal lyric, iambic, and elegiac poets, primarily those of the Archaic period. The development of theme, structure, and metre.
Prerequisite: K 1110 132 or equivalent.

Classical Civilization and Humanities

(All courses taught in English)

K 4903 181
CLASSICAL ARCHAEOLOGY 3.0
The science of evaluating Greco-Roman and closely related cultures through observation and analysis of their physical remains. Problems and methods of dating artifacts and sites. Building materials, types, and decorations. Field trip in addition to illustrated lectures and discussions.

K 4903 182
ENGLISH VOCABULARY: CLASSICAL ROOTS 3.0
Systematic development of the student's knowledge of English vocabulary through study of the most important Greek and Latin roots, prefixes, suffixes, and other elements and the ways in which they are used to form words in English.

K 4903 281
GREEK CIVILIZATION 3.0
The political, social, economic, and cultural history of the Greek world from the Bronze Age to the Roman conquest as seen through literary. documentary, and archaeological sources. (Also listed under History as P 2205 281.)

K 4903 282
ROMAN CIVILIZATION 3.0
The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary, and archaeological sources. (Also listed under History as P 2205 282.)

K 4903 285
MYTHOLOGY 3.0
The nature and interpretation of mythology, primarily as seen through the myths of Greece and Rome. Selected comparative study of myths of the Near East, Iran, India, and other cultures.

K 4903 351
THE CITY IN ANTIQUITY 3.0
Cities and city-based culture in the Greek and Roman world seen through the evidence of archaeology, literary sources, and contemporary documents such as inscriptions. Town planning, economic life, social groups, and population patterns in selected ancient cities.

K 4903 375
STUDY ABROAD 3.0
Approved study-travel programs at selected universities, classical sites, museums. Credit by evaluation.

K 4903 383
WOMEN IN ANTIQUITY 3.0
Women in the ancient world and their contributions to history, literature, philosophy, and the arts. Emphasis on Greco-Roman civilization, with comparative study of other ancient cultures.

K 4903 384
INTRODUCTION TO ROMAN LAW 3.0
The role of law in Roman history and society. Social structure and family law. The law and slavery. Property, contracts, and delicts. Legal forms, legal fictions, and the response of law to new conditions. Roman law in the medieval and modern periods.

K 4903 470
SEMINAR IN CLASSICAL HUMANITIES 3.0
Topic to be selected according to faculty and student interest and developed through an interdisciplinary approach.
Prerequisite: Permission of department.

Communication Sciences and Disorders

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Elaine Barden

The undergraduate curriculum in communication sciences and disorders provides a foundation for professional specialization at the master's level. Students progress through a sequence which emphasizes the normal use and development of speech, hearing and language. Subsequent courses consider the nature of communication disorders and principles related to their management. Supervised clinical experience with children and adults presenting communication disorders is available in the on-campus Communication Disorders Center.

The undergraduate program is designed to prepare students to enter master's level training. The master's degree is a requirement for all employment in the field of communication disorders.

On completing the undergraduate curriculum, students may pursue graduate study and concentrate in speech-language pathology, audiology, learning disabilities, or early childhood special education. A post-baccalaureate certification program in teacher of the handicapped is available. The undergraduate and graduate programs in communication sciences and disorders prepare the student to fulfill the requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association and for the N.J. licenses in speech-language pathology and audiology.

Communication Sciences and Disorders Major

Registered Courses

		Semester Hours
1200 100	Fields of Communication Sciences and Disorders	3
1220 103	Fundamentals of Voice and Speech Production*	3
1220 202	Language and Learning	3
1220 207	Hearing Science	3
1220 208	Anatomy and Physiology of the Speech System	3
1220 209	Voice and Articulation Disorders	3
1220 210	Clinical Process and Procedures in Speech-Lanaguage Pathology	3
1220 410	Neurophysiological Disorders of Communication	3
1220 411	Psychodynamics of Communication Disorders	3
1220 412	Diagnosis of Communication Disorders	3
1220 461	Introductory Practicum in Communication Disorders	3
1220 462	Intermediate Practicum in Communication Disorders	3
1220 464	Psychology of Oral Communication	3
1220 468	Clinical Procedures in Audiology	3
1220 469	Problems of the Hearing Impaired	3
1220 483	Introduction to Language Disorders of Children	3

*Fulfills speech communications requirement for majors.

Note: Majors are urged to take Psychology of Exceptional Children and Youth to complete the state certification requirement.

Electives

Select courses from the appropriate list to be obained from the departmental advisors.

Teacher Certification

Speech-Language Specialist Certificate

Candidates for the Speech-Language Specialist Certificate are required to take the following courses which are offered by the Department o Curriculum and Teaching:

Undergraduate Level
0829 400 Teacher, School and Society
0829 435 Effective Teaching/Productive Learning

Graduate Level
0829 411 Supervised Student Teaching
0829 402 Seminar in Professional Education

Students should consult the department advisor for additional information about these requirements.

Courses of Instruction

L 1220 100
FIELDS OF COMMUNICATION SCIENCES AND DISORDERS 3.0
An orientation to practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties.

L 1220 101
FUNDAMENTALS OF SPEECH: COMMUNICATIONS REQUIREMENT 3.0
Understanding the process of oral communication and improving personal skills in speaking and listening. Developing clear, effective comprehension and expression of the spoken American-English language. Fulfills General Education Requirement — Speaking/Listening for non-majors.

L 1220 103
FUNDAMENTALS OF VOICE AND SPEECH PRODUCTION 3.0
Theory and practive of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills.

L 1220 202
LANGUAGE AND LEARNING 3.0
An overview of theories that explore the relationship between cognition and language development of young children and the relationship between language and school learning. Introduction to the development of semantics, syntax and pragmatics. Observation techniques.
Prerequisite: L 1220 104.

L 1220 207
HEARING SCIENCE 3.0
Basic acoustics, anatomy and physiology of the auditory mechanism, and a clinical orientation to impairments of hearing.

L 1220 208
ANATOMY AND PHYSIOLOGY OF THE SPEECH SYSTEM 3.0
The anatomical and physiological basis of respiration, phonation and articulation-resonation.

L 1220 209
VOICE AND ARTICULATION DISORDERS 3.0
Voice and articulation problems of pre-school and school-age children. Strategies, techniques and materials for evaluation and remediation.
Prerequisites: L 1220 103, 104, 208.

L 1220 210
CLINICAL PROCESS AND PROCEDURES IN SPEECH-LANGUAGE PATHOLOGY 3.0
An orientation to clinical practice. A model of the clinical process is presented which interfaces the interpersonal relationship with professional/technical competencies. Consideration is given to planning treatment programs, traditional and augmentative clinical approaches, therapeutic activities/materials, and clinical reporting.
Prerequisites: L 1220 104, 202, 209

L 1220 410
NEUROPHYSIOLOGICAL DISORDERS OF COMMUNICATION 3.0
Etiology and pathology of major language and speech disorders resulting from impaired functioning of the nervous system; diagnosis and rehabilitation.
Prerequisites: L 1220 104, 202, 208, 209.

L 1220 411
PSYCHODYNAMICS OF COMMUNICATION DISORDERS 3.0
Psychological aspects of communication disorders. The nature, diagnosis and treatment of stuttering in children and adults. The nature of counseling and psychotherapy.
Prerequisites: L 1220 104, 202, 209, at least 6 semester hours in psychology.



L 1220 412
DIAGNOSIS OF COMMUNICATION DISORDERS 3.0
Formal and informal assessment procedures for the diagnosis of speech, voice and language disorders. Dynamics of interviewing and the reporting and interpreting of case histories.
Prerequisites: L 1220 209, 410, 411.

L 1220 461
INTRODUCTORY PRACTICUM IN COMMUNICATION DISORDERS 3.0
Supervised clinical practices with children and adults presenting a variety of communication disorders.
Prerequisites: L 1220 209, 210, 410, 412, 483; concurrent with L 1220 411.

L 1220 462
INTERMEDIATE PRACTICUM IN COMMUNICATION DISORDERS 3.0
Supervised clinical practice with children and adults presenting a variety of communication disorders.
Prerequisites: L 1220 209, 210, 410, 411, 412, 461, 483.

L 1220 464
PSYCHOLOGY OF ORAL COMMUNICATION 3.0
Problems of interpersonal communication leading to confusion of meaning and misunderstanding. Effects of speech, language, hearing and emotional handicaps. Primary emphasis on disordered communication as a common situation in society. Listening as an active process, and therapy activity as an ongoing communicative event as well as a goal directed process.
Prerequisite: Junior standing.

L 1220 468
CLINICAL PROCEDURES IN AUDIOLOGY 3.0
The measurements of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical and educational referral. Demonstrations and supervised practice testing.
Prerequisite: L 1220 207.

L 1220 469
PROBLEMS OF HEARING IMPAIRED 3.0
Current theories and practices of speech reading, auditory training, hearing aid evaluation and educational placement. Psychological aspects of hearing loss. Interviewing and counseling the parents of the hearing impaired child.
Prerequisite: L 1220 468.

L 1220 483
INTRODUCTION TO LANGUAGE DISORDERS OF CHILDREN 3.0
An overview of semantic, syntactic, and pragmatic problems that occur in children. Introduction to language sampling and other assessment techniques and procedures for remediation.
Prerequisites: L 1220 202.

L 1220 484
SEMINAR IN PROBLEMS AND ISSUES IN COMMUNICATION SCIENCES AND DISORDERS 2.0
Independent study and research in selected areas of communication sciences and disorders. Enrollment limited.
Prerequisites: Majors only, departmental permission.

Counseling, Human Services and Guidance

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Arlene King

Students enrolled in one or more courses offered by the Department of Counseling, Human Services and Guidance will broaden their knowledge and skills in the areas of communication, careers, leadership abilities training, value clarification, group and/or team building and interpersonal interaction. These courses, with the general aim of building foundations for a life open to learning and enrichment, are designed to serve students from varied fields and interests. Four of these courses — Group Dynamics, Personal Values, Career Counsciousness, and Dynamics of One-to-One Communication — are General Education Requirement possibilities. Among other courses offered by the department are those dealing with counseling techniques used in the alcoholism recovery process.

For those students wishing to further supplement their chosen major and professional development, an 18-credit Human Services Minor has been developed. This minor wil help students increase their communication skills to be used in their own areas of specialization, as well as better comprehend theoretical foundations of both group and one-to-one interaction. They will facilitate the acquisition of skills, knowledge and self-confidence necessary to become more effective leaders and helping professionals.

This department also offers a master's degree with specializations involved in guidance, counseling, human services, and school social work.

Human Services Minor

Required Courses

		Semester Hours
2 0826 331	Group Dynamics	3
2 0826 330	Dynamics of One-to-One Communication	3
2 0826 329	Theories and Techniques of Group Process	3
2 0826 434	Facilitating the Interactive Process II	3

Electives

Select 6 semester hours in consultation with and approval of the advisor in Counseling, Human Services and Guidance.

Courses of Instruction

2 0826 328
PEER COUNSELING 3.0
This course provides the student with actual peer counseling experience. This experience takes the form of one-to-one and group counseling. The student will experience the counseling process both as a counselor and as a client.

2 0826 329
THEORIES AND TECHNIQUES OF GROUP PROCESSES 3.0
Given that we function in groups of all sizes and of various purposes throughout life, this course provides an understanding of the underlying dynamics of groups and provides the opportunity to relate the theories of group development to the actual group process.

2 0826 330
DYNAMICS OF ONE-TO-ONE COMMUNICATION 3.0
This course is designed to examine the dynamics of one-to-one communication through readings and experientially. The course will further develop personal goals for optimizing personal communication and assist in establishing strategies for the attainment of these goals. Fulfills General Education Requirement.

2 0826 331
GROUP DYNAMICS 3.0
This course is a seminar laboratory experience designed to facilitate human relationships. Focus is on individual behavior in groups. Participation in actual group process provides opportunity for development of insight into the effects of one's behavior on others. Fulfills General Education Requirement.

2 0826 332
ACTION APPROACHES TO PERSONAL AWARENESS 3.0
Designed to increase personal awareness and to assist in developing skills needed to maximize individual growth in human interaction. Through the use of psychodrama and other action oriented techniques, students will have the opportunity to experience and develop strategies for working beyond barriers to effective interaction.

2 0826 333
LEADERSHIP TRAINING 3.0
This course will demonstrate and utilize the special skills required for effective leadership.

2 0826 413
INTRODUCTION TO NEUROLINGUISTIC PROGRAMMING AND ERICKSONIAN TECHNIQUES 3.0
A laboratory based course which will introduce students to the history, theory and applications in the field of NLP and Ericksonian techniques.
Prerequisite: 2 0826 329

2 0826 430
INTERACTION ANALYSIS 3.0
The purpose of this course is to help participants become more objective in their observations and reporting of interactions which they witness or in which they participate. Various observational tools and methods will be used in the gathering of objective data on three kinds of interaction (interpersonal, small group, and classroom).

2 0826 432
PERSONAL VALUES 3.0
Designed to help each participant undertake a personal exploration of his own values, what they are and how he got them, and then consider alternatives avialable. Fulfills General Education Requirement.

2 0826 433
FACILITATING THE INTERACTIVE PROCESS I 3.0
Through observation, lectures, seminars and readings, students will gain understanding of the influence of norms, leadership styles, peers, and other factors on the development of a cohesive group. This experience is preparation for working facilitatively in small groups.

2 0826 434
FACILITATING THE INTERACTIVE PROCESS II 3.0
This course provides the opportunity for students to gain practical experience in leading groups. Students will be expected to co-lead groups with staff members and be available to assist in all learning endeavors.

2 0826 450
INTRODUCTION TO ALCOHOLIC COUNSELING 3.0
This course provides the opportunity for students to have practical experience in counseling the recovering alcoholic. Students will gain an understanding of the etiological factors of alcoholism and their implications for counseling. They will experience the specialized techniques used in counseling the recovering alcoholic.

2 0826 451
COUNSELING THE RECOVERING ALCOHOLIC 3.0
A comprehensive survey of concepts and complexities generic to alcohol related dysfunctions. The course investigates contemporary counseling theories and practices compatible with the pathology of the alcoholic. Emphasis is on helping prospective human service professionals develop behavioral skills germane to appropriate counseling intervention.
Prerequisite: 2 0826 450, Introduction to Alcoholism Counseling.

2 0826 452
PRACTICUM IN ALCOHOLISM COUNSELING 3.0
The course provides students with a supervised practicum in a human service agency which treats alcoholics. Under supervision of a certified counselor, they will observe and participate in the agency activities. Students will also examine the interactions of other health professionals, community resources and services available to the client in his/her recovery.
Prerequisites: 2 0826 450, 451.

2 0826 453
FIELD WORK IN ALCOHOLISM COUNSELING 3.0
This course will integrate student learnings in counseling the alcoholic. Students will re-examine major counseling theories in alcoholism and will also plan and implement counseling sessions under supervision.
Prerequisites: 2 0826 450, 451, 452.

2 0826 454
COMMUNITY RESOURCES FOR ALCOHOLISM COUNSELING 3.0
Study of the methods and approaches used in alcoholism counseling in the community. There will be an exploration of resources that are available. Federal, State and local efforts to help the recovering alcoholic will be examined to provide students with knowledge of available resources in the field.
Prerequisite: 2 0826 450.

2 0826 481
THE LEGAL RIGHTS OF WOMEN 3.0
This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of affirmative action, civil rights legislation and titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered.

2 0826 482
CAREER CONSCIOUSNESS 3.0
This is a course in career skills that integrates schematic human relations training and problem solving techniques with the definition of career goals. The ultimate aim is to facilitate your successful exit from college. Fulfills General Education Requirement.

Curriculum and Teaching

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Susie B. Boyce

Teaching has been called the immortal profession because of the impact it has on any society. The mission of the department of Curriculum and Teaching is the professional education of public school teachers. Its faculty coordinates the teacher education program and offers the courses within the professional semester. Special care has been taken in the development of the field experience courses which are taught in selected public schools. In order to support the continuing professional growth of teachers, there are programs and courses at the graduate level.

The Teacher Education, Post-Baccalaureate Certification, Master of Arts in Teaching Degree and Master of Education Degree programs are described elsewhere in this catalog (see index).

Courses of Instruction

1 0829 100
COLLEGE LEARNING AND THINKING SKILLS 3.0
Course is designed to provide freshmen in the student tutorial program with a learning environment in which to develop the cognitive and affective strengths needed for college success. The course offers opportunities to become inquisitive, competent, and confident learners.

1 0829 200
INITIAL FIELD EXPERIENCE 1.0
An introductory course in the professional education sequence. Classroom instruction and visits to public schools will provide students the opportunity to examine public education from a professional perspective. (This course is required before full admission to Teacher Education.)

1 0829 400
TEACHER, SCHOOL AND SOCIETY 3.0
An overview of the field of education, includes a consideration of instructional, curricular, legal and professional issues affecting teachers, schools and society as well as implications for students.

1 0829 401
SENIOR FIELD EXPERIENCE 1.0
Part of the professional semester. It is designed to provide for experiences in the community in which one student teaches to better understand the place of the school in the community. Placement in professional semester field center. Course only open to student teachers.

1 0829 402
SEMINAR IN PROFESSIONAL EDUCATION 1.0
Part of the professional semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to find practical solutions to problems experienced. Placement in professional semester field center. Course only open to student teachers.
Prerequisite: 1 0829 410.

1 0829 410
INTERMEDIATE FIELD EXPERIENCE IN EDUCATION 1.0–3.0
Thirty hours per credit in a public school as assistant to the classroom or subject teacher. Observing, working with individuals and small groups of students, helping with clubs and student activities, teaching "mini-lessons" and becoming familiar with teacher activities. Each student keeps a log of activities. Class meetings on campus during the experience are arranged.
Prerequisite: Admission to teacher preparation program. Obtain course application from the Teacher Admissions office prior to registering for course.

1 0829 411
SUPERVISED STUDENT TEACHING 8.0
Student Teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements. Part of professional semester.

1 0829 414
IN-SERVICE SUPERVISED TEACHING I 4.0
Replaces supervised student teaching for those employed in teaching situations without standard certification. Joint supervision by the school district and college personnel. Student must have permission of department chairperson and the school district.
Corequisite: 1 0829 402.

1 0829 415
IN-SERVICE SUPERVISED TEACHING II 4.0
Continuation of In-service Supervised Teaching I. The corequisite seminar is replaced by a series of special in-service conferences included in the course.
Prerequisite: 1 0829 414.

1 0829 417
MUSIC EDUCATION SUPERVISED STUDY I 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight credits required for certification. Limited to music majors.
Prerequisite: Admission to Teacher Education program. Registration with Student Teaching office.

1 0829 418
MUSIC EDUCATION SUPERVISED STUDY II 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight semester hours required for certification. Limited to Music majors.

1 0829 421
SEMINAR PROBLEMS OF A CLASSROOM TEACHER 1.0–3.0
Reviewing, evaluating and relating teacher aide and student teaching experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptions in techniques and practices. Should be taken concurrently with or immediately after experiences.
Prerequisite: Departmental permission.

1 0829 423
TEACHING IN URBAN SCHOOLS 3.0
Focuses on factors affecting teaching and learning in urban schools. Topics include the nature and structure of urban schools, recent innovations in urban settings, mores and family patterns in the inner city, and funding opportunities.

1 0829 430
ELEMENTARY SCHOOL CURRICULUM 3.0
Characteristics of young learners, the source, nature & function of curriculum goals, types of elementary school administrative organization, the relationship of curricular patterns and classroom procedures, modern subject matter areas. Audio-visual aids, testing, and reporting to parents may be included. Field trips and simulation materials.

1 0829 435
EFFECTIVE TEACHING/PRODUCTIVE LEARNING 2.0
The course is designed for students preparing for and subsequently participating in the teaching internship. It will develop basic teaching skills which the research literature indicates are related to productive learning outcomes. The skill areas are those of communication, motivation, classroom discipline, learning and cognitive development, media usage, multi-cultural education, curriculum, and evaluation and practical research. Part of the professional semester. Prerequisites: Majors only; senior standing; T 2001 200, departmental methods course; field work.

Economics

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Phillip LeBel

Economics is the study of how market and nonmarket institutions can best allocate relatively scarce resources to promote individual and social welfare. As such, it offers well-defined mechanisms for analyzing a wide array of theoretical and policy-oriented issues. The curriculum is designed to contribute to a broadly-based liberal arts education by expanding a student's perception of the economic decisions that individuals and societies must make under widely varying conditions. Strong emphasis is given to the development of skills in analytical reasoning, quantitative fluency, written and oral communications, as well as creative excellence.

In addition to preparing students for direct career experience in business, government and the professions, the department provides solid preparation for graduate work in Economics as well as in related disciplines. With faculty also involved in the M.B.A. and the Economics Concentration of the M.A. in Social Science, in academic research and community service, the undergraduate B.A. in Economics program benefits from the skills of highly experienced professionals.

Economics Major

Required Courses:

		Semester Hours
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3
2204 203	Economic Statistics	3
2204 207	Intermediate Microeconomic Analysis	3
2204 208	Intermediate Macroeconomic Analysis	3
2204 420	Econometrics	3

Students who wish to major in Economics must meet the following departmental admissions criteria: 1. a cumulative grade point average (GPA) of 2.75 or better in a minimum of 12 credits taken at Montclair State College or an accredited equivalent; 2. a 2.50 combined minimum GPA for completion of the following two courses, or equivalents: C 2204 101 Principles of Economics: Macro, and C 2204 102 Principles of Economics: Micro; 3. a 3.00 combined minimum GPA for any two courses from the following Social Science disciplines, or equivalents: Anthropology; Environmental, Urban and Geographic Studies; History; Political Science; Psychology; Sociology; 4. a 2.00 minimum GPA for completion of the following two courses, or equivalents: i. Y 1701 113 Mathematics for Business I: Linear Algebra; ii. Y 1704 114 Mathematics for Business II: Calculus.

Graduation in Economics requires that a student complete a total of 33 credits in the major. In addition, a student must complete B 0845 320 Business Communications. Additional information on freshman, transfer, and re-admission standards, course updates, scheduling sequences, departmental honors, and graduation requirements are found in the **Guide to the Department of Economics** handbook.

Electives

Select 15 semester hours from the appropriate list to be obtained from the department 15

Economics Minor

The department maintains a minor program for all majors at the college. It involves the completion of 18 semester hours from the departmental courses, 6 of which should be Principles of Economics: Macro and Principles of Economics: Micro.

Courses of Instruction

C 2204 100
INTRODUCTION TO ECONOMICS 3.0
Major objectives and features of the American economy, including operations of a market economy, structure and function of business, money and banking, government and business relations. For Non-Majors only. May not be taken after C 2204 101 and/or C 2204 102 have been taken.

C 2204 101
PRINCIPLES OF ECONOMICS: MACRO 3.0
A study of the American economy, analytically and institutionally; the achievement of an optimal allocation and resources, price stability, full employment, level of national income and long term growth.

C 2204 102
PRINCIPLES OF ECONOMICS: MICRO 3.0
Organization and operation of the American economy for the production and distribution of goods and services. Pricing of products and factors of production in market situations varying from competition to monopoly. Resource allocation, price determination and behavior of the firm in the determination of quantity of output and the hiring of factors of production.

C 2204 203
ECONOMIC STATISTICS 3.0
Basic elements of economic statistics including frequency distribution, sampling, index numbers, statistical inference, regression and correlation techniques.
Prerequisites: C 2204 101 and 102, or instructor's permission.

C 2204 205
COLLECTIVE BARGAINING: THEORY AND PRACTICE 3.0
The development of collective bargaining in the United States and an analysis of the factors that account for present practices. The impact of collective bargaining on contemporary American life. Work in field.
Prerequisites: C 2204 101, 102, or permission of instructor.

C 2204 206
MANAGERIAL ECONOMICS 3.0
The application of economic theory in the decision-making processes of the firm. Utilization of economic analysis in the study of demand, costs, pricing and capital investment decisions.
Prerequisites: C 2204 101, 102, and 203.

C 2204 207
INTERMEDIATE MICROECONOMIC ANALYSIS 3.0
The basic determinants of market demand. Input-output relationships in determining cost structure. Determination of prices received by resource owners in the productive process. Theory of the firm and pricing in different types of market organization with varying degrees of competitive conditions.
Prerequisites: C 2204 101, 102.

C 2204 208
INTERMEDIATE MACROECONOMIC ANALYSIS 3.0
The factors comprising aggregate demand and how they interact to determine the level of employment, output and the price level; the role of monetary and fiscal policy.
Prerequisites: C 2204 101, 102.

C 2204 209
COLLECTIVE BARGAINING IN THE
PUBLIC SECTOR 3.0
Course will analyze the sources of growth of collective bargaining in the public sector; examine processes utilized by the parties and evaluate the impact of collective bargaining.
Prerequisites: C 2204 101, 102.

C 2204 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
Evolution of economic institutions with emphasis on development of domestic and foreign markets, technological changes and industrial growth. Analysis and interpretation of cyclical changes.

C 2204 215
THE ECONOMICS OF SOCIAL PROBLEMS 3.0
The extent, causes and consequences of poverty, inequality and insecurity. An appraisal of reforms, social insurance, medical care, public housing, rural development. The economics of discrimination and educational opportunity.

C 2204 222
ECONOMIC HISTORY OF EUROPE 3.0
The economic life and development of Europe from the Middle Ages to the present, emphasizing the period from about 1750; economic causes that underlie the dislocations and perplexities of the 19th and 20th centuries.

C 2204 250
SELECTED TOPICS IN ECONOMICS 3.0
An in-depth study of a particular theoretical or applied area of economics.

C 2204 300
WORLD RESOURCES AND INDUSTRIES 3.0
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and populatoin-resource ratios. Examines world trend in production controls and market allocations. Also listed under Environmental, Urban and Geographic Science as N 2206 300.

C 2204 301
MONEY AND BANKING 3.0
An analysis of the economic role of money and credit in our economy, with primary emphasis on federal reserve and treasury operations.
Prerequisite: C 2204 101, 102.

C 2204 303
ECONOMIC GROWTH AND DEVELOPMENT 3.0
Problems of hastening the growth of countries with low incomes per person, the requisites for economic development, the obstacles to such development, the strategy and tactics of development and aid for development.
Prerequisite: C 2204 207.

C 2204 304
PUBLIC POLICIES TOWARD BUSINESS 3.0
The economic organization of particular American industries. U.S. policy toward completion, monopoly and bigness in business. Government control of public utilities, transportation, radio and television broadcasting.
Prerequisites: C 2204 207 (or C 2204 206).

C 2204 308
PUBLIC FINANCE 3.0
The impact of governmental expenditures, taxes and debt operation on resource allocation, income distribution, economic stabilization and economic growth.
Prerequisites: C 2204 207 (or C 2204 206).

C 2204 310
URBAN AND REGIONAL ECONOMICS 3.0
The underlying economic forces operating in the urban economy. Development of the urban economic unit; relationship of the urban economy to the regional and national economy; economic activity within the urban area; and the public sector of the urban economy.
Prerequisites: C 2204 207 (or C 2204 206).

C 2204 311
LABOR ECONOMICS 3.0
The determinants of wages in the organized and unorganzied markets. A historical survey and analysis of the principal institutions and central processes in the labor and manpower areas. An examination of current issues in labor relations.
Prerequisites: C 2204 207 (or C 2204 206).

C 2204 312
BUSINESS CYCLES AND FORECASTING 3.0
Fluctuations in economic activity which characterize modern industrial economics. Definitions, descriptions and statistical measurement of business cycles are presented along with theories describing the causes of the cycles. Practical application of forecasting techniques to predict the course of future economic and business activity.
Prerequisites: C 2204 203 (or equivalent), and C 2204 208.

C 2204 314
DEVELOPMENT OF ECONOMIC THOUGHT 3.0
Broadening and improving the command of modern economic theory by examining the outstanding contributors to economic thought over the past two centuries.
Prerequisites: C 2204 101, 102, or instructor's permission

C 2204 398
ECONOMIC INDEPENDENT STUDY 3.0
Independent study for juniors and seniors who have developed a special interest as a result of work in a course or who wish to develop their interest through their own guided reading. A member of the economics department guides the student in this research and reading.

C 2204 401
FINANCIAL INSTITUTIONS 3.0
The structure and operation of financial institutions, their role in the economy and in the money and capital markets. The techniques and objectives of monetary policy and its effect on financial institutions.
Prerequisites: C 2204 208 or C 2204 301.

C 2204 402
INTERNATIONAL ECONOMICS 3.0
The how, why and consequences of the movement of goods, services and factors of production in international exchange and an examination of the financial arrangements used to facilitate trade.
Prerequisites: C 2204 206 or 207.

C 2204 403
COMPARATIVE ECONOMIC SYSTEMS 3.0
The economic systems of planned and mixed economies with special emphasis on the Soviet Union, China, the United Kingdom, and Scandinavian countries and the United States.
Prerequisite: C 2204 207 (or C 2204 206) or C 2204 208.

C 2204 404
INTERDEPENDENCE IN THE GLOBAL ECONOMY 3.0
This course is a one semester introduction to the challenges and opportunities created by the increasing interdependence in the world economy. The emphasis is on empirical explorations of the implications of the core theories of International Trade and Finance for the U.S. consumer, entrepreneur and policymaker. In adition, some of the current economic issues flowing from our global linkages are examined with a view to assessing the propriety of fiscal and monetary responses.
Prerequisite: C 2204 402.

C 2204 407
ECONOMICS OF INDUSTRIAL ORGANIZATION 3.0
The causes and effects of structure, size and concentration on competition and market prices.
Prerequisite: C 2204 207 (or C 2204 206).

C 2204 410
COMPUTER APPLICATIONS IN ECONOMICS 3.0
This course is designed to use computer concepts in the context of economic applications. Empirical and theoretical aspects of economics are studied. Computer applications are covered in statistics and econometrics, cost-benefit analysis, optimal decision-making, input-output economics, and the simulation of economic models. Students apply programming concepts as well as use existing software.
Prerequisites: C 2204 101, 102, 203 and either 207 or 208.



C 2204 417
MATHEMATICAL ECONOMICS 3.0
Formulation of economic theory in mathematical language. Application of mathematical methods to economic theory and to the derivation of theoretical conclusions.
Prerequisite: C 2204 207 (or C 2204 206) and C 2204 208 (Y 1701 114 Math for Bus. II recommended).

C 2204 418
ECONOMICS OF HUMAN RESOURCES 3.0
Analysis of the role of human resources in the economic process.
Prerequisite: C 2204 207 (or C 2204 206).

C 2204 419
THE ECONOMICS OF ENERGY & ENVIRONMENTAL POLICY 3.0
An examination of the economic, technological and environmental policy dimensions of energy policy choices. Emphasis is given to the linkages among various economic models, elementary principles of energy storage and conversation, and specific energy technologies as they apply to past and current energy policy alternatives.
Prerequisite: C 2204 207 or 208.

C 2204 420
ECONOMETICS 3.0
An introduction to the techniques of applied economic (Social Science) research. Examination of the tools necessary for applied economic research and methods for dealing with certain problems inherent in economic data. The primary emphasis will be on the application of the techniques to economic data.
Prerequisites: C 2204 101, 102 and C 2204 203 or equivalent.

C 2204 438
ADVANCED SEMINAR IN ECONOMICS 3.0
A seminar designed to enable economics students to develop and discuss important economic ideas with an aim to presenting these in a teaching situation.
Prerequisites: 9 semester hours in economics and instructor's permission.

C 2204 439
ADVANCED SEMINAR IN ECONOMICS: HONORS I 3.0
Define the scope and methodology of the honor project through the presentation of a thesis prospectus. This process will involve preparation of a review of the relevant research literature, specification of an appropriate research methodology, gathering and testing of preliminary data where appropriate, as well as submission of the thesis prospectus to the departmental honors committee.

C 2204 440
ADVANCED SEMINAR IN ECONOMICS: HONORS II 3.0
Student will complete all appropriate quantitative and qualitative analysis of seminar in Economics Honors I as well as prepare a summary and interpretation of their findings. Through discussion of findings, faculty and student will make suggestions for any additional analysis or revisions to be undertaken.
Prerequisite: C 2204 439

C 2204 461
SEMINAR IN INTERNATIONAL ECONOMIC GEOGRAPHY 3.0
An interdisciplinary seminar focusing the techniques of economics and geography on a common theme, hopefully resulting in a synergistic conclusion.

C 2204 497
ECONOMICS INDEPENDENT STUDY 3.0
Open to students who wish to undertake reading and/or research in specialized areas of economics. Permission of the department chairperson must be secured.
Prerequisite: Permission of the department chairperson.

Educational Foundations

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Thunder Haas

As a society evolves, so does its educational responsibilities. The department meets these changing needs by developing innovative programs through comparative study, and philosophical and sociological theory. In this way, it also services and improves existing programs. The department offers undergraduate and graduate courses for the preparation of public school educators while meeting the specialized demands that are beyond the limits of the public schools. It also offers a Master of Arts in Teaching in Alternate and Community Education which permits qualified college graduates teaching in non-public schools to earn a secondary school teaching certificate while working towards a master's degree. Undergraduate electives are offered as well.

Courses of Instruction

3 0821 220
PHILOSOPHICAL ORIENTATION TO EDUCATION 3.0
Western philosophical heritage as related to the issues and responsibilities of American education. Comparative analysis of past and current ideological movements that influence moral, social, and educational decisions of parents, political leaders, and professional educators.

3 0821 225
CRITICAL ISSUES IN THE EDUCATION OF BLACK AMERICANS 3.0
This course examines the attitudes of American society in relation to the education of Black Americans from slavery to the present time. It traces the slow evolvement and pinpoints the milestones along the way. It emphasizes the issues which currently prevent the achievement of full implementation of equality of educational opportunity for Black Americans including social/structural obstacles. Solutions are addressed which appear to have potential for success.

3 0821 264
SEXISM IN AMERICAN EDUCATON 3.0
Designed to analyze sexism in the American schools. Emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content.

3 0821 321
PHILOSOPHICAL AND CULTURAL FOUNDATIONS OF REASONING 3.0
The course provides an introduction to elements of rational thinking from a philosophical and cultural perspective. It gives attention to such matters as inference, hypothesis and generalization as they would be treated in a "modern" society and in a selected number of other cultures. Attention is also given to how such reasoning is useful in professional work.

3 0821 430
SEMINAR IN AFRO-AMERICAN STUDIES 3.0
This course will build upon the student's understanding of various aspects of Black life in America. Selected topics will cover the research and practices affecting Blacks in the political, cultural, social, economic and educational arenas. The approach to understanding issues and the posing of solutions will be interdisciplinary in nature.

3 0821 440
SOCIOLOGICAL FOUNDATIONS OF EDUCATION 3.0
The study of education as a major social institution. Teaching and learning are examined in the context of social factors which affect educational structures, processes, and outcomes. Considers social and cultural influences on teachers and learners, the relationship of culture, role, and personality in the classroom, and the school as a changing system.

3 0821 445
PUERTO RICAN CHILDREN IN MAINLAND SCHOOLS 3.0
Introduction to the experiences of Puerto Rican children in mainland schools with particular attention to migration. The Puerto Rican family, Puerto Rican life-styles, cultural identity, cultural pluralism, learning needs and evolving programs. Includes visits to schools.

3 0827 449
CURRENT ISSUES IN AMERICAN EDUCATION 3.0
A study of recent initiatives, controversial questions, and current problems which impacted upon the field of education throughout the past decade, as well as an examination of new theories which may change the course of American education in the near future.

3 0821 460
COMPARATIVE EDUCATION 3.0
The meaning of comparative education: differences between educational systems in developed and developing societies. (Developed areas such as Western and Central Europe—developing areas such as Latin America and tropical Africa)

3 0821 477
ETHNIC/RACIAL GROUPS AND THE SCHOOLS IN AMERICA 3.0
A multidisciplinary study of the meaning and significance of cultural pluralism in the U.S. Analyzes problems associated with cultural pluralism and the historical and contemporary sources of those problems; the role of the school in assimilation/acculturation, and in affecting social and economic outcomes for various groups; and avenues to improved cross-cultural understanding through education.



Educational Leadership

SCHOOL OF PROFESSIONAL STUDIES
Acting Chairperson: Joy Stone

Educational leaders need solid foundations in order to meet the needs of this ever changing world. The department has four specialties programs that provide essential course work and field experience:

Administration and Supervision

Offers only graduate courses leading to the Master of Arts degree in Administration and/or Supervision and to post-Master of Arts studies. (See graduate catalog.)

Educational Research and Evaluation

Trains educational research and evaluation specialists needed in various educational, governmental and industrial areas. It also broadens the professional education of students through courses designed to make them competent in educational research and evaluation.

Reading Program

The Reading Program encompasses several major areas at the undergraduate level. These areas include a reading course within the general education requirements, six semester hours in the teaching of reading for students enrolled in teacher education programs, a reading minor, and personal reading improvement such as study skills and speed reading. The course 4 0830 105 Reading: Communicating Through Text fulfills a general education requirement for full-time freshmen and part-time students. The two courses designed to meet initial certification for teacher education majors are 4 0830 407 Reading I: Theory and Process and 4 0830 408 Reading II: The Content Areas. A Reading minor of 12 semester hours in reading and 12 semester hours in related areas is available. Upon completion of the minor, students are eligible for the Reading Teacher Certificate.

Students can enhance their personal reading improvement and study skills by enrolling in 4 0830 102 College Reading and Study Skills Improvement and/or 4 0830 300 Speed Reading for Academic and Professional Development.

For all students who must meet their basic reading skills requirement, the Reading program offers a three semester hour non-additive credit course entitled 4 0830 053 Basic Reading Skills.

Faculty in the Reading and Study Skills Center will advise students regarding academic or personal Reading programs. Tutoring and independent work are also available.

Reading Minor

The course sequence in Reading will be coordinated with the course sequence in the major program. A minimum of 24 semester hours will be required for the completion of the minor.

Required Courses

		Semester Hours
0830 400	Foundations of Reading Instruction*	3
0830 402	Survey of Reading Methods in Secondary Subjects	3
0830 403	Practicum in Reading and the Improvement of Study Skills	3
0830 404	Diagnosis and Treatment of Reading Problems	3
2001 235	Psychology of Exceptional Children and Youth (prerequisite)	3

*Prerequisite for all Reading courses.

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Note: College students may take a personal reading improvement program for optional credit as a service through the Reading and Study Skills Center.

Media and Technology in Education Team

The modern library doesn't just contain printed material; it stores informational media. The Media and Technology team prepares students with a sound, up-to-date group of courses that lead to New Jersey state certification on the graduate level as an Association Media Specialist or as an Educational Media Specialist.

Requirements for the Associate Educational Media Specialist Certificate

Satisfactory completion of not fewer than 18 semester hours of work as follows: (In exceptional cases appropriate substitutions or changes may be made in these requirements upon approval by the program advisor.)

I. Prerequisities

1. To be determined by departmental advisement in reference to any deficiencies made apparent by New Jersey Standards for Coordination and Development of Educational Media Services for Public Schools.
2. A Bachelor's degree and a curriculum approved for a standard New Jersey Teacher's Certificate, or a Bachelor's degree plus a New Jersey Teacher's Certificate.

II. Specialization in media and technology		Semester Hours
0840 401	Fundamentals of Cataloging and Classifying Educational Resources	3
0840 402	Reference and Bibliography for School Resource Centers	3
0840 403	Reading Materials for Children and Youth (Selection and Evaluation)	3
0840 500	Media, Technology and Learning in the Curriculum	3
0840 520	Production of Materials for Media Technology	3
0840 521	Design of Innovative Curriculum Resources	3
0840 540	Television Production in Education	3
0840 541	Television Programming in Education: Independent Study	3
0840 550	Administration and Supervision of Media in Education	3
0840 610	Research and Development Seminar in Instructional Technology and Resources	3
		Minimum: 18 semester hours
0840 615	Supervised Field Experience for Educational Media Certification	3
When field experience is required:		Minimum: 21 semester hours

Courses of Instruction

4 0830 053
BASIC READING SKILLS 3.0
An intensive course for students who must fulfill their minimum basic skills requirement in reading. Non-additive credit. Traditional grading procedures in effect.
Prerequisite: New Jersey College Basic Skills Placement Test.

4 0830 102
COLLEGE READING AND STUDY SKILLS IMPROVEMENT 3.0
Workshop for college students whose reading-study problems interfere with school progress. Supervised practice promotes vocabulary growth, flexible speeds, comprehension and recall, skimming, interpretative and critical techniques. Reviewing for examinations, keeping up daily assignments, taking notes and organizing content are also covered. Students may volunteer or be recommended by a faculty member.

4 0830 105
READING: COMMUNICATING THROUGH TEXT 3.0
This course, designed for the general student, will foster a critical understanding of the processes involved in efficient and effective reading. Emphasis will be placed on developing student's life-long reading habits in relation to comprehension, aesthetic sensibilities and analytical skills. GER Communications requirement.

4 0830 300
SPEED READING FOR ACADEMIC AND PROFESSIONAL DEVELOPMENT 3.0
An intensive speed reading course for students who must contend with a myriad of reading materials in their college courses as well as future occupations. Students will practice strategies for dealing efficiently with a variety of printed materials such as journals, technical reports, office memoranda, textbooks and newspapers. Content will include the mechanics of speed reading, reading flexibility, establishing purpose, surveying, skimming, scanning and phrasing. Students will learn how to evaluate their improvement and how to maintain their speed reading skills.

4 0830 400
FOUNDATIONS OF READING INSTRUCTION 3.0
Good first teaching of reading is of primary importance. The sequential development of reading skills extend into the junior and senior high school. Methods and materials currently in use in elementary reading programs are studied with a view toward increasing the power of both the teacher and the learner. How the reading process begins, and how it is reinforced are topics fundamental to all upper grade teachers faced with the problem of continuing reading skills development in all curriculum areas. Tutoring experience in nearby elementary schools is required.

4 0830 402
SURVEY OF READING METHODS IN SECONDARY SUBJECTS 3.0
The following are explored: the role of good reading for academic and personal success; the physiological, psychological and sociological factors in reading; resources available; the school's responsibility to help the student build reading skills; reading opportunities in the entire curriculum.

4 0830 403
PRACTICUM IN READING AND THE IMPROVEMENT OF STUDY SKILLS 3.0
The following areas are explored: recent materials and research; developing practical methods for teaching and learning; the SQ3R approach; taking examinations; reading and problem-solving; memory and concentration; taking and organizing reading notes; and the reading of homework assignments. Students tutor collegians in these areas.

4 0830 404
DIAGNOSIS AND TREATMENT OF
READING PROBLEMS 3.0
Problems of the handicapped; recent materials and research; evaluative and corrective techniques; diagnostic treatment and methodology are covered. An on-going student diagnosis of the school-age child is required.

4 0830 407
READING I: THEORY AND PROCESS 3.0
Designed for classroom and non-classroom personnel whose major responsibility is instructing students. Major focus will be on developing those skills, understandings and competencies in the nature of the reading process, in specific word recognition and comprehension strategies, and in classroom diagnostic techniques.
Prerequisite: Junior/senior standing.

4 0830 408
READING II: THE CONTENT AREAS 3.0
Designed to enable content area teachers to understand the developmental nature of the reading process and employ specific techniques to facilitate and improve reading competencies.
Prerequisite: 4 0830 407, junior/senior standing.

4 0840 355
MEDIA IN INTERCULTURAL COMMUNICATION 3.0
Offered to develop an awareness of the ways in which media are effective for solving problems of communication in intercultural situations. Cultural and technological factors affecting accuracy and meaning in human expression receive major attention. The ability to identify a communications problem between or among cultures, and select and implement a media remedy is stressed. Fulfills general education: contemporary issues.

4 0840 401
FUNDAMENTALS OF CATALOGING AND
CLASSIFYING EDUCATIONAL RESOURCES 3.0
Covers principles involved in cataloging and classification of print and non-print materials according to established classification schemes. Extensive practice through laboratory experience provided.

4 0840 402
REFERENCE AND BIBLIOGRAPHY FOR SCHOOL
RESOURCE CENTERS 3.0
An examination and analysis of basic reference materials with emphasis on those most useful in library resource centers. Encyclopedia, dictionaries, geographical and statistical sources as well as bibliographies are included.

4 0840 403
READING MATERIALS FOR CHILDREN
AND YOUTH (SELECTION AND EVALUATION) 3.0
A study and evaluation of library materials provided by the modern school media center to meet the needs of youth. Extensive critical reading of books for children and young adults is required. Principles of book selection are emphasized, and experience in the use of selection tools is provided. The point of view relates the library collection to the total school program.

English

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES
Chairperson: Rita Jacobs

The English Department offers instruction in interpreting and creating informative and imaginative texts, and in the description and historical understanding of the English and American languages.

Students may major or minor in English, minor in journalism or film and obtain a teaching certificate. The English Department participates in the Cooperative Education Program to offer students career oriented work opportunities.

English Major
Required Courses

		Semester Hours
Genre (select one)		
1501 260	Art of Poetry	3
1501 262	Art of Fiction	3
1501 263	Art of Drama	3
Language and Rhetoric* (1 course)		3
American Literature* (2 courses each from a different period)		6
British Literature* (3 courses each from a different period)		9
Comparative Literature* (1 course)		3

*Check with department for appropriate courses.

English Minor

Required Courses

	Semester Hours
Genre: Comparative Literature, Language and Rhetoric (2 courses)	6
American Literature (2 courses)	6
British Literature (2 courses)	6

Journalism Minor

Required Courses

		Semester Hours
1507 210	Newswriting	3
1507 216	History of Journalism in America	3
1507 313	Editing	3

Electives (Three of the following)

1507 214	Feature Writing	3
1507 300	Meet the Press	3
1507 314	Advanced Editing	3
1507 315	Magazine Journalism	3
1507 316	Reporting of Public Affairs	3
1507 416	Interpretive Journalism	3

Special Programs

English Cooperative Education

The English Cooperative Education program places students with strong writing and analytical skills in supervised employment outside the classroom. The co-op term is a semester during which the student is advised by a faculty coordinator and the Cooperative Education office completes the terms of a learning contract.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. Prerequisites for admission to the Teacher Preparation program in English and current requirements in the discipline for both a first and a second teaching field certificate can be obtained in the English department.

Courses of Instruction

M 1501 100
BASIC COMPOSITION 3.0
Instruction in basic writing skills and research, frequent writing assignments. In addition to regular class meetings, students may be required to attend tutorial sessions over as long a period of time as necessary to raise students' skills to college standards. Placement based on scores in New Jersey College Basic Skills Placement Test. For those placed, this course is prerequisite to M 1501 105.

M 1501 105
FRESHMAN COMPOSITION 3.0
Writing skills and research techniques with frequent writing assignments and a research paper. Satisfies the communications requirement in writing. This course and 1501 106 are prerequisites for all other English courses.

M 1501 106
INTRODUCTION TO LITERATURE 3.0
All forms of literature selected from different periods and cultures. Satisfies the communications requirement in reading. This course and 1501 105 are prerequisites for all other English courses.
Prerequisite: M 1501 or equivalent course.

M 1501 139
SOCIAL PROTEST LITERATURE IN AMERICA 3.0
Novels, dramas and poetry of protest against social injustices in the United States since World War I.

M 1501 150
SPECIAL TOPICS IN LITERATURE 3.0
A course on a literary subject of general interest not included in the regular departmental offerings. Not intended to meet departmental requirements for the major.

M 1501 161
SHORT STORY 3.0
An introducton to the short story as an evolving form, 19th and 20th century stories will be studied with attention to literary and human values.

M 1501 175
THE VIETNAM WAR EXPERIENCE
AND AMERICAN CULTURE 3.0
This course examines the problem of the legacy of the experience of the Vietnam War (sometimes called the "Vietnam Syndrome") as it is reflected in the culture of the United States and primarily in American literature since the end of the war in 1975. Differing discussions and evaluations of the problems bequeathed by the Vietnam War will be examined in works of political commentary, cultural criticism, history and foreign affairs, as well as in literature.

M 1501 226
LITERATURE OF THE AMERICAN RENAISSANCE 3.0
Moby Dick and *The Scarlet Letter* among other major works by masters of the American Romantic period—Emerson, Thoreau, Hawthorne, Melville, Whitman and Poe are examined.

M 1501 234
AMERICAN DRAMA 3.0
American drama chosen for excellence or representative of a significant era or movement in the theatre from the early 18th century imitative works through melodrama to the serious works of the 20th century. Centered on major American playwrights and their work. The course also examines the backgrounds of our modern stage-including readings in minor/historical works.

M 1501 238
AFRO-AMERICAN WRITERS 3.0
Major Afro-American writers from colonial times to the present.

M 1501 240
ENGLISH LITERATURE I: BEGINNINGS TO 1660 3.0
English literature from its beginnings to 1660 examined through representative works of major and minor authors.

M 1501 241
ENGLISH LITERATURE II; 1660 TO PRESENT 3.0
English literature from the restoration to the present. May be taken independently of English Literature I.

M 1501 247
THE AUGUSTAN AGE 3.0
Important works of English literature 1600–1745, including poetry, criticism, essays, fiction and drama, examined within the literary, cultural, social and intellectual contexts of the age.

M 1501 250
SPECIAL TOPICS IN ENGLISH OR
AMERICAN LITERATURE 3.0
A survey or genre course on a topic not included in the regular departmental offerings. May be used by English majors as a departmental elective.
Prerequisite: M 1501 106 or equivalent.

M 1501 254
ENGLISH DRAMA: BEGINNINGS TO 1642 3.0
English drama from its medieval origins to the closing of the theaters in 1642; from miracles, mysteries and moralities through the development of Tudor and Stuart Drama, Shakespeare excluded.

M 1501 256
ENGLISH NOVEL TO 1900 3.0
Form and theme of the English novel through the 18th and 19th centuries, evaluated by literary, social, moral and cultural criteria.

M 1501 260
ART OF POETRY 3.0
An introductory course in reading, interpreting, and evaluating poetry. Attention is paid to style, form, and poetic convention.

M 1501 262
ART OF FICTION 3.0
An introduction to form and techniques in fiction through close reading and discussion of representative texts.

M 1501 263
ART OF DRAMA 3.0
An introduction to dramatic literature and the ways in which man expresses himself and his community through drama as a blend of word and gesture.

M 1501 294
WOMEN POETS 3.0
Selected poets from Sappho through Emily Dickinson to Sylvia Plath examined in relation to contemporary women poets.
Prerequisite: M 1501 160.

M 1501 324
AMERICAN POETRY TO 1940 3.0
American poetry from Poe to Langston Hughes with an emphasis on what makes the American voice unique.

M 1501 325
AMERICAN POETRY: WORLD WAR II TO PRESENT 3.0
American poetry beginning with William Carlos Williams and continuing to the present with an emphasis on new attitudes, techniques and contributions to American culture.

M 1501 326
EARLY AMERICAN LITERATURE 3.0
American literature from the Puritans to 1800, tracing the development of colonial and revolutionary thought and the beginning of America's cultural independence.

M 1501 336
AMERICAN LITERARY REALISM 3.0
The works of James, Howells, Twain, Crane, Norris, Dreiser and others are examined in light of the developing literary concepts of realism, naturalism and social Darwinism in the changing cultural period between 1860 and 1900.

M 1501 337
MODERN AMERICAN FICTION 3.0
American fiction from 1918 to 1945 with attention to the works, criticism and lives of such authors as Hemingway, Faulkner and Fitzgerald.

M 1501 338
CONTEMPORARY AMERICAN FICTION 3.0
Developments in American fiction since the 1940's with attention to such authors as Mailer, Roth, Nabokov and Vonnegut.

M 1501 343
MILTON 3.0
An introduction to the mind and art of Milton. Intensive study of one major work and selections representative of the full range of his achievement.

M 1501 344
CHAUCER 3.0
Troilus and Criseyde, The Canterbury Tales and some of the minor poems in Middle English. No previous language training required.

M 1501 345
MIDDLE ENGLISH LITERATURE 3.0
The literature of England from 1100 to 1400, in its historical and social contexts and in relation to continental literature. Where appropriate, works are read in Middle English.

M 1501 346
19TH CENTURY ENGLISH ROMANTIC LITERATURE 3.0
The revolutionary expression of such poets and essayists as Wordsworth, Coleridge, Shelley, Byron, Keats, Hazlitt, De Quincey and Lamb.

M 1501 347
VICTORIAN PROSE AND POETRY 3.0
Mid and late 19th century responses to the emergence of modern British society demonstrated in the works of Carlyle, Mill, Ruskin, Huxley, Newman, Arnold, Morris, Tennyson and Browning.

M 1501 348
RENAISSANCE LITERATURE 3.0
Major poets and prose writers of 16th and early 17th century England such as Sydney, Lyly, Nashe, Greene, Donne and Browne, whose individual contributions in poetry and prose reflect the literary and philosophical preoccupations of the period.



M 1501 353
SHAKESPEARE: COMEDIES-HISTORIES 3.0
Representative comedies and histories: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's vision of man as actor.

M 1501 354
SHAKESPEARE: TRAGEDIES-ROMANCES 3.0
Representative tragedies and romances: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's view of man in the tragic mode and later romances.

M 1501 364
CONTEMPORARY POETRY 3.0
Distinctive movements in poetry since the Imagists, comparing the diverse styles, themes and poetic theories of representative poets of English speaking countries.

M 1501 370
ENGLISH INDEPENDENT STUDY I 2.0-3.0
A scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in that field of interest.
Prerequisite: Junior or senior standing with prior permission of the specialist and the English department.

M 1501 371
ENGLISH INDEPENDENT STUDY II 2.0-3.0
A second scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in that field of interest or a study begun in 1501 370 that continues for a second term.
Prerequisite: Successful completion of M 1501 370 and prior permission of the specialist and the English department.

M 1501 401
OLD ENGLISH LANGUAGE AND LITERATURE 3.0
Selected prose and poetry representative of the heroic, elegiac, religious and popular traditions of pre-conquest England, with recitation and reading in the original old English. No previous language training required.

M 1501 444
17TH CENTURY ENGLISH POETRY 3.0
The schools of Donne and Johnson and the works of Marvell and Dryden. Milton excluded.

M 1501 446
IRISH RENAISSANCE PERIOD LITERATURE 3.0
Irish romanticism, naturalism, symbolism and realism in the works of Joyce, Shaw, Yeats and others from the late 1890s to the 1930s.

M1501 455
RESTORATION AND 18TH CENTURY DRAMA 3.0
Major innovation of dramatic form and conventions in the period from 1660 to 1715 on the English stage, in the works of Etherege, Wycherley, Congreve, Vanbrugh and Dryden.

M 1501 456
20TH CENTURY ENGLISH NOVEL 3.0
The literary and cultural context and the stylistic and structural changes in representive British novels of the 20th century.

M 1501 471
TEACHING ENGLISH (SECONDARY) 4.0
Communicating both the discipline and the human dimensions of English as a subject in the classroom, including familiarization with adolescent literature and the uses of computers in the English classroom. A course in the professional sequence not credited to the English major requirements.
Prerequisites: Concurrent or completed preliminary field experience 0829-410 and permission of the English teacher education coordinator.

M 1501 493
SEMINAR IN AMERICAN LITERATURE 3.0
The works of one major American author in depth or of a group of authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or instructor's permission.

M 1501 494
SEMINAR IN ENGLISH LITERATURE 3.0
The works of one major English author in depth or a group of English authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or instructor's permission

M 1503 176
WORLD LITERATURE:
THE COMING OF AGE THEME 3.0
This course combines Western with non-Western works to approximate an approach to a "global perspective" on literature; it is designed to introduce the student to major works of world literature; to foster an international literary sensibility: to present a variety of cultural perspectives in a context which demonstrates how they are interrelated: to present students with assignments that will direct them toward developing skills of literary analysis and interpretation; and to guide students in deepening their awareness of the connections between national literatures and their cultural contexts. This course is an alternative to General Humanities under the current General Education Requirement.

M 1503 177
WORLD LITERATURE SEMINAR:
VOICES OF TRADITION AND VOICES
OF CHALLENGE 3.0
Organized around the premise that writers have two fundamental ways of responding to the challenge of their culture, conformity or dissent, this course will present literary works in pairs that represent opposing ways of responding to the same subject. Meets the General Education Requirement.

M 1503 250
SPECIAL TOPICS IN COMPARATIVE LITERATURE 3.0
A survey or genre course on a topic not included in the regular departmental offerings. Satisfies the departmental major requirement in comparative literature.
Prerequisite: M 1501 106 or equivalent.

M 1503 260
MYTH AND LITERATURE 3.0
Myth and the myth-making process: the origins, meanings and major archetypes and motifs of occidental and oriental myths.

M 1503 366
AFRICAN MYTH AND LITERATURE 3.0
The nature of the sub-Saharan experience and vision through African myths and literary works within the context of culture, criticism and theory.

M 1503 372
WOMEN PROSE WRITERS 3.0
Reading in the international fiction and non-fiction of women writers. The focus will be on such themes as the nature of the family, changing relationships between women and men, evolving concepts of the "feminine," the impact of colonialism on gender related issues, (i.e., work and women's identity) and interrelationships between religion and women's lives.

M 1503 373
LITERARY MODERNISM 3.0
The intellectual concepts of Futurism, Dada, Surrealism and Expressionism in the early 20th century, which continue to influence literature and art.

M 1503 374
CONTEMPORARY EUROPEAN DRAMA 3.0
Plays representing the themes, values and dramatic techniques of selected British and Continental (French, German, Italian, Russian and/or other) dramatists.

M 1503 375
MODERN DRAMA: IBSEN TO O'NEILL 3.0
Major modern plays and the playwrights whose critical insights and historical perspective led to their unique contributions.

M 1503 376
MODERN EUROPEAN NOVEL 3.0
The creative expression of such novelists as Gide, Hesse, Kafka, Proust and Woolf as shaped by events of the period 1910 to 1930, and how these works influenced the future of the novel.

M 1503 377
SPECULATIVE FICTION: FANTASY 3.0
The impossible and improbable in fairy tales, myth, legend, horror, sword and sorcery, the supernatural and high fantasy as a critical mode. Technological science fiction excluded.

M 1503 378
SCIENCE FICTION 3.0
Fiction of the future that speculates and extrapolates from the physical and social sciences, selected from both the classics and contemporary writings.

M 1503 381
COMIC AND SATIRIC TRADITION 3.0
Comic and satiric devices compared and exemplified historically from Aristotle's time to the present.

M 1503 463
HISTORY OF CRITICISM 3.0
The modes of critical thought expressed by major figures in the Classical era, their imitators and interpreters in the renaissance and Neo-Classic period, the innovators among the Romantics, and by critics of the 20th century.

M 1503 464
MODERN POETRY TO T. S. ELIOT 3.0
Works of the French symbolists and the Georgian and Imagist poets of Britain, the Continent and America whose theories and principles underlie modern poetics.

M 1503 492
SEMINAR IN COMPARATIVE LITERATURE 3.0
A culture, era, theme or literary approach studied through international literary masterpieces. Enrollment limited.
Prerequisite: Junior or senior standing English majors or instructor's permission.

M 1505 284
THE ENGLISH LANGUAGE 3.0
The history and development of English from its Indo-European and Germanic origins to the present, with emphasis on the Morphology of old and middle English.

M 1505 384
THE GRAMMARS OF ENGLISH 3.0
A critical overview of traditional, structural, and transformational-generative approaches to the problems of analyzing the grammar of the English language; practical applications for teaching English and for understanding grammatical principles as means of more effective writing and literary analysis. This course is cross-listed with Q 1505 384.

M 1507 200
CREATIVE WRITING: FICTION, POETRY, DRAMA 3.0
Writing as a creative process with explorations in poetry, drama, fiction and autobiography.

M 1507 204
ADVANCED EXPOSITORY WRITING 3.0
A course designed to help general students improve their expository writing beyond the level of skill developed in the freshman composition course. Particular emphasis will be placed on argument and persuasion.
Prerequisite: M 1501 105.

M 1507 205
WRITING: NONFICTION PROSE 3.0
Advanced writing skills with stress on developing a personal writing style, adapting writing style to various subjects and audiences and experimenting with different modes of exposition.
Prerequisites: M 1501 105, instructor's permission

M 1507 206
BUSINESS WRITING 3.0
Writing skills essential to the world of work with emphasis on correspondence, analytical reports and proposals.

M 1507 207
TECHNICAL WRITING 3.0
Writing skills essential in technology, science and industry with emphasis on mechanism and process description, analysis of data, recommendation proposals and formal reports.

M 1507 210
NEWSWRITING 3.0
Writing news articles according to contemporary practices. Interviewing techniques are explored as well as a respect for facts, impartiality, and fairness.
Prerequisite: Instructor's permission

M 1507 214
FEATURE WRITING 3.0
All aspects of writing personality profiles and of writing critical reviews, columns and/or sports features.

M 1507 216
HISTORY OF JOURNALISM IN AMERICA 3.0
Evolution of the American press is examined through research and discussion of significant periods, individuals and issues from 1600 to the present.

M 1507 250
SPECIAL TOPICS IN WRITING 3.0
A course in writing not included in the regular departmental offerings. May be used by English majors as a departmental elective.
Prerequisite: M 1501 105 or equivalent.

M 1507 300
MEET THE PRESS 3.0
Study of issues and problems in modern journalism through lectures and writings of working journalists.

M 1507 301
COOPERATIVE EDUCATION (ENGLISH) 8.0
An outside the classroom English supervised employment experience related to academic study. Not included in major requirements.
Prerequisites; Permission of English faculty coordinator and the office of cooperative education.

M 1507 310
WRITING: DRAMA 3.0
Writing and evaluating dramatic dialogue with consideration of the problems of form, characterization and action. Usually students will complete a one-act play.
Prerequisite: M 1507 200 or instructor's permission.

M 1507 311
WRITING: FICTION 3.0
Fundamentals and techniques of writing prose fiction (stories and/or novels), with evaluation in class and extensive individual conferences.
Prerequisite: M 1507 200 or instructor's permission.

M 1507 312
WRITING: POETRY 3.0
Writing, reading, and class and professorial evaluations.
Prerequisite: M 1507 200 or instructor's permission.

M 1507 313
EDITING 3.0
Copy editing, proofreading and basic editorial skills. Articles are analyzed for accuracy, libel, precise diction and tightening.
Prerequisites: M 1507 114, or 214, instructor's permission.

M 1507 314
ADVANCED EDITING 3.0
Techniques learned in editing are reinforced. Layout, headlines and production are explored. Rewriting and fitting articles are worked on extensively.
Prerequisite: M 1507 313.

M 1507 315
MAGAZINE JOURNALISM 3.0
Researching, writing and placement of feature stories in mass circulation magazines.

M 1507 316
REPORTING OF PUBLIC AFFAIRS 3.0
News articles on the activities of government at the local level, including writing reports on the proceedings of civil and criminal court and city/county executive councils.
Prerequisites: M 1507 114, 214, 313, or instructor's permission.

M 1507 407
ADVANCED LITERARY ANALYSIS 3.0
Writing of interpretive essays; applying traditional and contemporary critical approaches to selected works. Responding to them in scholarly writing.

M 1507 410
ADVANCED CREATIVE WRITING: DRAMA 3.0
Writing of one-act and/or full-length plays with intensive class analyses and individual conferences.
Prerequisites: 1507 210 and/or instructor's permission.

M 1507 411
ADVANCED WRITING: FICTION 3.0
Writing of prose with intensive class analyses and individual conferences.
Prerequisite: M 1507 311 or instructor's permission.

M 1507 412
ADVANCED WRITING: POETRY 3.0
Writing of poetry with intensive class analyses and individual conferences.
Prerequisite: M 1507 312 or instructor's permission.

M 1507 416
INTERPRETIVE JOURNALISM 3.0
Studying and writing columns, editorials and news articles. Students will compare different styles of interpretive reporting and develop their own skills in this area.
Prerequisite: M 1507 114 or equivalent course.

M 1507 491
SEMINAR IN WRITING 3.0
Creative writing, expository writing or theories of the teaching of composition for the advanced student. Enrollment limited.
Prerequisites: Junior or senior English majors and/or permission of instructor.

M 1511 208
INTRODUCTION TO THE FILM 3.0
The history and aesthetics of film from its beginning to the present, with special attention to the evolution of technique, influential art movements and national cinemas, pivotal directors and films.

M 1511 250
MAJOR FILM DIRECTORS 3.0
Focusing on the life and work of influential filmmakers, the course addresses such issues as auteur criticism, the nature of successful collaborations (scriptwriting teams, director/cinematographer) and performance theory.

M 1511 255
WORLD FILM 3.0
Films from the major film producing countries including the United States, France, Germany, Italy, Sweden, Russia, England, India and Japan. Within that framework, special topics will be defined: a specific period, a particular theme or problem, comparison/contrast of several national cinemas.

M 1511 260
MAJOR FILM GENRES 3.0
Examples from the major film genres, such as the western, the crime film, the musical, the horror film, and *Film Noir*, with special emphasis on American film and principles of genre criticism.

M 1511 270
THE AMERICAN FILM 3.0
The evolution of the American film from its beginnings to the present with special attention given to those genres in which American films are distinctive or of particular excellence.

M 1511 290
DRAMA ON FILM 3.0
Major film versions of European and American plays are studied both as adaptations and as independent works of art. The films are compared to the original texts to explore modifications for the screen, the values of the films as productions/interpretations of the plays and ultimately the nature of theatre as opposed to film.

M 1511 291
FILM AND SOCIETY 3.0
The relationship between film and society. Either a specific social issue, a particular society or group of societies or a special historic period will be examined.

M 1511 350
THREE DIRECTORS 3.0
A comparative study of three major film directors. The focus—using an auteurist derived methodology—will be to investigate a common problem or challenge confronted by each of the three directors.

M 1511 356
THE CONTEMPORARY FILM 3.0
Beginning with American *Film Noir* and European films which emerged after World War II, the course traces the major films, directors, critical theories and other influences which make up the contemporary film and define a specifically modernist sensibility.

M 1511 360
FILM COMEDY 3.0
Film comedies from all periods in relation to comic theory and its application with particular emphasis on American films of the 20's and 30's.

M 1511 370
FILM OF HOLLYWOOD STUDIO YEARS 3.0
At its peak, Hollywood was divided into two groups of studios: the big 5 (MGM, RKO, Twentieth-Century-Fox, Warner Brothers) and the little 3 (Columbia, United Artists, Universal). This course will examine the structure and power of the Hollywood studio system and in particular the ideological, generic and stylistic concerns of the individual studios.

M 1511 490
SPECIAL TOPICS IN FILM STUDIES 3.0
A non-survey course to address specific issues in film studios. The course may be taken more than once if different topics are taken.

M 4903 297
LITERATURE AND SOCIOLOGY 3.0
Through a study of certain works of recent American literature and of sociology, the course examines the impact of sociological ideas on literary culture and the relationship between the world of fictional works and the "real world" as revealed through sociological examination.

M 4903 298
LITERATURE AND PSYCHOLOGY 3.0
Major modern depth psychologies—Freudian, Jungian, Adlerian—in their worldwide literary portrayal of human character and action through investigating such issues as the alienated individual, love and marriage, parents and children and the quest for selfhood.

Environmental, Urban and Geographic Studies

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Harbans Singh

The department offers a geography major leading to the Bachelor of Arts degree and a minor in urban studies. There are three specializations which are applied in their nature and lead to careers in fields, such as, environmental management, city and regional planning, community development, economic development, transportation planning, real estate development. The specializations include environmental studies, urban studies, and geography and regional analysis.

In the specializations, the teaching emphasis is on the formulation of concepts and theory, analysis of environmental and census data, data presentation techniques, interrelationships between human and natural elements, locational analysis and environmental and urban problem solving.

Environmental studies attempts to develop a systematic understanding of the environmental factors related to life. Natural factors, such as water, air, land, biota, are studied in the context of socio-cultural, technological and behavioral factors. All aspects of environmental resources, environmental management and pollution are analyzed.

Urban Studies prepares students with technical skills to fully comprehend the process of modern urban growth and development. Urban location, development, management and planning are emphasized.

Geography and Regional Analysis is the study of the synthesis of all natural, physical and cultural elements found in various regions of the earth. Synthesis of regional attributes is stressed.

An important feature of these specializations is the full semester, off campus internship which inables students to work in public and private agencies as planners.

Geography Major—Urban Studies Concentration

Required Courses

		Semester Hours
2206 100	Principles of Geography or	3
2206 101	Introduction to Cultural Geography	3
2206 206	Introduction to American Urban Studies	3
2206 309	Research Methods in Geography and Urban Studies or	
2206 310	Quantitative Methods in Geography and Urban Studies	3

Electives (Departmental)

Select 24 semester hours from the appropriate list to be obtained from the department 24

Urban Studies Minor

Required Courses

2206 206	Indroduction to American Urban Studies	3
2206 462	People and Cities: Comparative Urban Studies	3
2206 463	Internship in Urban Studies	12
2206 464	Senior Seminar in Urban Studies (Urban Studies Internship)	3

Interdisciplinary Programs

The Environmental, Urban and Geographic Studies department participates in the interdisciplinary Bachelor of Arts degree program transcultural studies, which includes major concentration in Asian studies and Latin American studies. It is possible to design a career program in a number of professional fields. Contact the department for further information.

Courses of Instruction

N 2206 100
PRINCIPLES OF GEOGRAPHY 3.0
The spatial distribution and significance of important geographic phenomena, such as atmospheric pressure and wind systems, climatic types, water bodies, landforms, soil types, natural resources and population distribution mapping techniques and map interpretation.

N2206 101
INTRODUCTION TO CULTURAL GEOGRAPHY 3.0
Concepts of cultural geography including hearths, diffusion processes and environmental perception. Emphasizes socio-cultural diversity of mankind and the spatial aspects of race, language, religion and ethnic groupings as categories of thought patterns and institutions that unite or separate human groups.

N 2206 102
WORLD GEOGRAPHY 3.0
The study of place on a global scale and by major region. Variations in the natural environment, in man's use of the land, in population distributions, and in importance of regions.

N 2206 109
THE HUMAN ENVIRONMENT 3.0
An interdisciplinary course which examines man's relationship to his natural environment, his reliance on it, his view on it, and his changes in it, and future human and environmental projections. Also listed under Psychology as T 2001 109

N 2206 201
CLIMATOLOGY
Basic climate elements examined in terms of their influence on habitats and various aspects of human activities. The energy flux between atmosphere and biosphere affords a fundamental understanding of limitations in ecosystems development. Knowledge of climate influences on health, clothing, human comfort, architecture, commerce and industry encourages the student to investigate new ways of living rationally within a climate environment.

N 2206 203
OUR FINITE EARTH: POPULATION AND RESOURCES 3.0
Implications of the population explosion and the rising rate of resources consumption. Focuses on the alternate ways various societies can achieve equilibrium between population and economic development, within the framework of limited world resources.

N 2206 204
PRINCIPLES OF LAND USE 3.0
Geographical analysis of rural and urban land use patterns in the United States. Field work stresses mapping techniques and socio-economic aspects of urban land use in the New York-New Jersey metropolitan area.

N 2206 206
INTRODUCTION TO AMERICAN URBAN STUDIES 3.0
An interdisciplinary introduction to the development of American cities, with an emphasis on current patterns of urbanism and urbanization. The growth and evolution of urban structures, emerging urban and suburban cultural styles, and responses to critical urban issues will be explored.

N 2206 209
URBAN DESIGN AND ARCHITECTURE: AMERICAN CITYSCAPE 3.0
The evolution of American urban form and architecture from the colonial town to the contemporary metropolitan region; city plans and the emergence of professional planning; architect and the urban environment; cultural values; and changing urban forms and new town design.

N 2206 234
TRANSPORATION 3.0
Transportation is the study of spatial interaction of economic factors and societal functioning. Transportation flows are anaylyzed in the context of technological change, degree of accessibility, different transport cost surfaces, and transportation as it relates to land use planning.

N 2206 252
HYDROLOGY 3.0
Water: its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. Also listed under Physics and Geoscience as Z 1914 252.

N 2206 300
WORLD RESOURCES AND INDUSTRIES 3.0
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations. Also listed under Economics as C 2204 300.

N 2206 309
RESEARCH METHODS IN GEOGRAPHY AND URBAN STUDIES 3.0
Primary and secondary source material in geographic and urban research. The use of maps, graphs, diagrams, charts, aerial photographs, slides and other graphic material.

N 2206 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800. Also listed under History as P 2006 312.

N 2206 313
URBAN GEOGRAPHY 3.0
Spatial aspects of urban demography, post-World War II migration of the minorities to American urban centers and its impact on residential, commercial and industrial land use; the evolving pattern of population distribution in metropolitan areas with its resultant social and political problems. Non-majors only.

N 2206 317
MANAGING THE URBAN ENVIRONMENT 3.0
An advanced interdisciplinary investigation of the modern city and its suburbs, emphasizing the impact of selected social, political and economic issues.

N 2206 331
URBANIZATION AND ENVIRONMENT 3.0
Examines interaction between man and the physical urban environment. Studies dynamic and physical processes as related to air, water and noise pollution, and hydrologic and geologic hazards.

N 2206 352
FLUVIAL GEOGRAPHY 3.0
Detailed study of streams and rivers, emphasizing processes causing variations of size and shape; the morphology of streams; and stream channel processes, quantitative techniques. Also listed under Physics and Geoscience as Z 1914 352.

N 2206 403
MAN'S IMPACT ON THE COASTAL ZONE 4.0
A study of man's economics, political, legal and social impacts on the physical and biological aspects of the coastal zone, primarily a field course with supporting lectures and discussion.
Prerequisites: Advanced standing in one of the social sciences or permission of instructor.

N 2206 404
GEO-ECOLOGY 3.0
Spatial relations of the living environment. A systems approach to functional processes, characteristics and relationships of the ecological elements, i.e., soil, water, air, vegetation, etc. Both natural succession and man-induced changes including pollution, within the ecosystem.

N 2206 405
COMPUTER MAPPING 3.0
Theory and practice using a digital computer to solve problems encountered in geography; Fortran IV, computer solution of regressions, and symap (computer mapping).

N 2206 408
POLITICAL GEOGRAPHY 3.0
Main theories of the field and their application to selected political entities, current problem zones and the spatial interaction of nations.

N 2206 412
GEOGRAPHY OF SUB-SAHARA AFRICA 3.0
Topical and regional study of African soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent.

N 2206 417
INTRODUCTION TO REAL ESTATE I
In this course the student is introduced to the principles of real estate from a historical, social, economic, legal, and spatial perspective. The topics explored are: urban-suburban development and the real estate product; the changing nature of real estate through planning, zoning environmental and social considerations; real estate economics and demographics from a national, local and individual parcel level; and a detailed study of the legal instruments and concepts involved in residential, commercial and industrial real estate transactions.

N 2206 418
INTRODUCTION TO REAL ESTATE II
This course builds on the fundamental principles introduced in N 2206 417 and explores the following new topics: mortgage finance; market demand analysis for residential, retail commerical, office and industrial land use; location and site planning theory and analysis; real estate investment analysis and appraisal techniques; real estate research sources and methods; and public policy impacts on real estate.
Prerequisite: N 2206 417

N 2206 421
POPULATION PROBLEMS IN THE WORLD 3.0
Identification, description and analysis of the present-day distributional patterns of the world's people. Demographic trends, man-land ratios. Mobility, migration and socio-economics, and geographic forces affecting world population. Techniques for measurement and analysis.

N 2206 423
CULTURE AND RESOURCE UTILIZATION 3.0
Evaluation and utilization of resources. Examines changes of characteristics of physical resources in relation to technological and cultural change, population increase, resource depletion and accelerated redundance of man.

N 2206 426
INDEPENDENT STUDY 3.0
Preparation of a research paper or project to be presented to members of the staff. Junior and senior majors only.

N 2206 427
PRO-SEMINAR IN GEOGRAPHY 3.0
Problem-oriented seminar. Specific topics in urban, environmental studies or geography. Content changes according to the needs of the instructor.

N 2206 452
GEOHYDROLOGY 3.0
Ground water study: migration, chemistry and relation to the environment. Darcy's Law, soil porosity, soil permeability and well systems. Water pollutants and salt water incursions; spatial distributions and processes. Also listed as Z 1914 452.

N 2206 455
FUNDAMENTALS OF REMOTE SENSING OF ENVIRONMENT 3.0
Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their uses. Also listed under geoscience. Also listed as Z 1914 455.
Prerequisite: As Z 1914 455. 9 semester hours of geography of geoscience.

N 2206 456
HYDROCLIMATOLOGY 3.0
Climatology emphasizing moisture as one of the fundamental factors in climatic anaylsis; processes and problems of classification and variability. Examines energy and water balance. Also listed as Z 1914 456.

N 206 460
INTRODUCTION TO URBAN PLANNING 3.0
The course focuses on the principles, processes, and practices of urban planning. The formulation of policies and the management roles of the planning agencies are emphasized.

N 2206 462
PEOPLES AND CITIES: COMPARATIVE URBAN STUDIES 3.0
Introduction and cross-cultural investigation of the processes of urbanism and urbanization formation; structure and functioning of cities throughout the world.

N 2206 463
INTERNSHIP IN URBAN STUDIES 3.0-12.0
A full semester internship in an urban agency. Students will be expected to carry out agency assignments, observe and participate in decision-making processes and engage in middle management activities. Limited to seniors.
Prerequisite: At least 24 semester hours in the major.

N 2206 464
SENIOR SEMINAR IN URBAN STUDIES (URBAN STUDIES INTERSHIP) 3.0
A seminar to be taken in conjunction with the urban studies semester internship, and designed as a synthesis of the various approaches in urban studies which the student has acquired in previous urban-related courses. Each semester the seminar focuses upon a specific in-the-field research project, and an analysis and evaluation of the student's internship experience.
Prerequisites: N 2206 206, N 2206 462.

N 4951 409
LEGAL ASPECTS OF ENVIRONMENTAL LAW 3.0
This environmental law course will introduce students to the legal aspects of environmental law, within which institutions, and corporations must operate. The course includes: The National Environmental Policy Act; The Environmental Impact Statement; The Clean Air Act; The Clean Water Act; Toxic Substance Control Act; Solid and Hazardous Waste related environmental laws, i.e. OS&H Act; and Litigation.

Finance and Quantitative Methods

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Harvey Blumberg

This department offers two concentrations within the business administration major. The concentration in finance provides the student with a professional background in both corporate finance and investments. The courses in this concentration are planned on a sequential basis, and the student is advised to plan ahead and complete early the quantitative and economics courses.

The concentration in quantitative methods provides training in quantitative analytical methods for solving operational and research problems in industry. These methods, together with computer applications, are handled in depth to permit a student to become comfortable using statistics.

A Bachelor of Science degree in business administration with concentrations in either finance or quantitative methods is offered through this department.

Business Administration

Required Courses

		Semester Hours
0502 201	Fundamentals of Accounting I	3
0502 202	Fundamentals of Accounting II	3
0501 261	Legal Environment of Business I	3
0503 270	Statistics for Business	4
0506 311	Management Process and Organizational Behavior	4
0504 321	Fundamentals of Finance	3
0509 340	Introduction to Marketing	3
0503 372	Management Science	4
0506 439	Business Policy	3
0503 463	Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113	Mathematics for Business I—Linear Algebra	3
1701 114	Mathematics for Business II—Calculus	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Concentration Programs Within the Major

Finance

Required Courses†

		Semester Hours
0504 326	Investment Principles and Portfolio Theory	3
0504 322	Capital Budgeting Management	3
0504 327	International Financial Management	3
Select One		
2204 301	Money and Banking	3
0504 431	Advanced International Financial Management	3
0504 423	Advanced Corporate Finance	3
0504 425	Working Capital Management	3
0504 430	Security Analysis and Advanced Portfolio Theory	3
0503 362	Business Economics	3

Electives (Departmental)

Select 6 semester hours from the appropriate list to be obtained from the department. 6

Quantitative Methods

Required Courses

Select Four

0503 315	Production and Industrial Analysis	3
0503 362	Business Economics	3
0503 371	Management Information Systems	3
0503 374	Computer Management	3
0503 375	Operations Anaylsis	3
0503 386	Logistics Systems	3
0503 474	Business Forecasting	3
0503 475	Quantitative Decision Making for Business	3

Courses of Instruction

D 0503 270
STATISTICS FOR BUSINESS 4.0
The comprehension and the application of modern statistical methods. Topics covered include: Probability Theory, Descriptive Statistics, Interval Estimation, Sampling Theory, Parametic and Non-parametic Tests of Significance, Anaylsis of Variance, Correlation and Regression Analysis and Time Series Analysis.
Prerequisites: Y 1701 113, 114.

D 0503 274
BUSINESS COMPUTER PROGRAMMING 3.0
Problem-oriented programming languages are studied. Business applications will be programmed in FORTRAN and COBOL. Such programs will be debugged via the computer.

D 0503 315
PRODUCTION AND INDUSTRIAL ANALYSIS 3.0
This course is designed to expose students to production aspects of industries. It will develop theories and applications in the area of plant location, capacity planning, facilities design and layout, designing assembly line production systems, facilities maintenance and materials handling, purchasing, inventory control systems, forecasting demand for products, master scheduling and MRP, scheduling and control systems, quality control procedures and statistical quality control.
Prerequisites: D 0503 270 majors only, E 0506 310, instructor's permission.

D 0503 362
BUSINESS ECONOMICS 3.0
Managerial decision-making, the economic meaning and interpretation of demand and supply, production, conpetition, cost, price and capital investment. Some mathematical methods, case problems, model-building devices to develop forecasting and decision-making skills.
Prerequisites: C 2204 101 or 102, E 0506 310.

D 0503 372
MANAGEMENT SCIENCE 4.0
Applied mathematical techniques used to solve a wide variety of problems with special attention to issues, management and production control. Topics include linear programming, transportation and assignment algorithms, pert, inventory models, decision theory, markov models, queuing theory and simulation.
Prerequisites: E 0506 310; D 0503 270, 272.

D 0503 374
COMPUTER MANAGEMENT 3.0
Optimum selection of computer hardware, software and operating systems among various alternatives from a cost effectiveness point of view.
Prerequisite: D 0503 371.

D 0503 375
OPERATIONS ANALYSIS 3.0
Mathematical and statistical methods in the analysis of specific business systems and industrial production activities, inventory control, production planning and scheduling, and capital management. Computers are used to solve problems involving complex systems.
Prerequisites: D 0503 372.

D 0503 386
LOGISTICS SYSTEMS 3.0
The logistics sub-system in the economy and the firm; definitive methods of attacking logistics problems. Relationships among logistics components (transportation, materials handling, warehousing, packaging, inventory holding and location theory), and the inter-face of logistics activities and other functional areas of business.
Prerequisites: E 0506 310, F 0509 340.

D 0503 463
ADMINISTRATIVE RESEARCH METHODOLOGY AND ANALYSIS 3.0
Scientific investigations into business problems, evaluation of data sources, research methods, statistical techniques, analysis and interpretaion of data. Individual and team investigation and reporting on current problems.
Prerequisite: D 0503 270, senior standing.

D 0503 474
BUSINESS FORECASTING 3.0
Mathematical and economics models for short-and long-range business forecasting. Models are evaluated for accuracy and relevance. The computer is used as a tool in developing an automated system.
Prerequisite: D 0503 270.

D 0503 475
QUANTITATIVE DECISION MAKING FOR BUSINESS 3.0
Decision-making under conditions of certainty, risk, uncertainty, conflict and competition. The theorectical basis for management decisions and elements of the process. The theory of games and the use of simulation as applied to typical managerial problems.
Prerequisites: E 0506 310, F 0509 340, D 0503 270.

D 0503 491
CO-OP EDUCATION IN QUANTITATIVE METHODS 3.0
This course is aimed at synthesizing theory and practice. Students will be provided an opportunity to have an experience to one or two off campus on-job trainings in various aspects of quantitatives methods of one or more businesses. Full-time students may alternate between college and business where as part-time students may take co-op in parallel with college.

D 0504 321
FUNDAMENTALS OF FINANCE 3.0
Financial statements and financial forecasting. Introduction to risk, return, and value. Introduction to working capital management, capital budgeting, optimum capital structure, and dividend policy.
Prerequisites: A 0502 202, C 2204 101, 102.

D 0504 322
CAPITAL BUDGETING MANAGEMENT 3.0
Anaylsis of various investment criteria, especially net present value and internal rate of return. Risk in capital budgeting, capital budgets and performance evaluation, stressing the distinction between accounting and financial criteria. Application of concepts and techniques to such issues as leasing, mergers and acquisitions.
Prerequisites: D 0503 270, D 0504 321.

D 0504 326
INVESTMENT PRINCIPLES AND PORTFOLIO THEORY 3.0
Financial assets and markets; investors attitudes; sources of investment information, market efficiency, risk and return characteristics of securities. Covariance principle. Application of the capital asset pricing model and general investment valuation methods.
Prerequisites: D 0503 270, D 0504 321.

D 0504 327
INTERNATIONAL FINANCIAL MANAGEMENT 3.0
Introduction to multinational business finance. Foreign exchange markets and exchange rate forecasting. Balance of payment accounts, measures of surplus or deficit and their relevance to financial planning. International financial markets and international banking. Import and export financing. Positioning of funds.
Prerequisites: D 0504 321.

D 0504 423
ADVANCED CORPORATE FINANCE 3.0
Interaction of investment and financing decisions. Optimal capital structure and dividend policy: The Miller-Modigliani propositions. Calls and puts. Option valuation models. Valuation of risky debt and term structure of interest rates. Warrants and convertibles.
Prerequisites: D 0504 322 or D 0504 326.

D 0504 425
WORKING CAPITAL MANAGEMENT 3.0
Detailed treatment of topics such as components of working capitals; cash budgeting; short-term financial planning. Credit management; cash and inventory management; short-term lending and borrowing.
Prerequisite: D 0504 321.

D 0504 430
SECURITY ANALYSIS AND
ADVANCED PORTFOLIO THEORY 3.0
Critical examination of methods of stock and bond valuation. Fundamental and technical analysis. Application of portfolio theory and investment strategies. Pension plans.
Prerequisites: D 0504 321, D 0504 326.

D 0504 431
ADVANCED INTERNATIONAL FINANCIAL
MANAGEMENT 3.0
Measurement and management of foreign exchange exposure. Exchange and country risk. The Foreign Investment Decision, multinational capital budgeting, cost of capital and financial structure.
Prerequisites: A 0502 202, D 0504 321, 327.

D 0504 491
CO-OP EDUCATION IN FINANCE 3.0-8.0
This course is aimed at synthesizing theory and practice. Students will be provided an opportunity to have an exposure to one or two off-campus on-job-trainings in various aspects of quantitative methods of one, or more businesses. Full time students may alternate between college and business where as part time students may take course in parallel with college.

Fine Arts

SCHOOL OF FINE AND PERFORMING ARTS
Chairperson: Anne Betty Weinshenker

The Fine Arts Department offers a Bachelor of Arts and a Bachelor of Fine Arts degree.

The B.F.A. degree program is a pre-professional program with specialization in ceramics, drawing, fabrics, filmmaking, graphic design, illustration, jewelry, multi-media, painting, papermaking, photography, printmaking and sculpture. Courses in each specialization give intensive pre-professional experience preparing students for involvement as artists, graphic designers and illustrators.

The B.A. is a liberal arts degree with four programs: Studio, Art History, Art Education, and Studies in the Visual Arts. The program in Studio is for students interested in liberal arts with a rich studio experience specializing in the same areas as those in the B.F.A. program. The Art History program is for students interested in the historical development of art. The program in Fine Arts Education leads to certification to teach in public schools and is intended for students who want to teach art in schools, museums and community centers. Studies in the Visual Arts is for students seeking an understanding and appreciation of the visual arts.

All students, except those interested in the Art History Program, must successfully complete a portfolio review for admission, in addition to meeting the college requirements.

Studio (BA)

A liberal arts program for students who want a studio concentration.

Required Courses

		Semester Hours
1001 101	Design/Foundations of Visual Organizations I	3
1001 102	Design/Foundations of Visual Organizations II	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1003 451	Contemporary Art	3
1001 107	Drawing I	3
1001 201	Color Studies I	3
1001 220	Life Drawing I (May substitute G 4921 350 Illustration I: Survey of Concepts and Methods for graphic design emphasis.)	3
Art History Electives		6

Select 6 semester hours from 2 of the following categories:
1. Ancient Art through Medieval
2. Renaissance through Baroque (15th through 18th centuries)
3. 19th or 20th Century
4. Non-Western

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department. Include 3 sequential courses in same area of specialization (e.g. Sculpture I, II, III). Exhibition Workshop I (G 1091 489) is strongly recommended.

Studio (BFA)

A preprofessional program for students who seek preparation as artists.

Required Courses

		Semester Hours
1001 101	Design/Foundations of Visual Organization I	3
1001 102	Design/Foundations of Visual Organization II	3
1001 107	Drawing I	3
1001 201	Color Studies I	3
1001 220	Life Drawing I (May substitute G 4921 350 Illustration I: Survey of Concepts and Methods for graphic design emphasis.)	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1003 451	Contemporary Art	3
Studio Electives		15
Major Studio		28
Art History Electives		6
1002 215	Art Forum	2
1003 462	Senior Seminar	3
1091 489	Exhibition Workshop I	3

Art History (BA)

A liberal arts program for students whose interest is in the study of the history and development of the art of mankind in all its variations from antiquity to the twentieth century.

Required Courses

		Semester Hours
1001 101	Design/Foundations of Visual Organization I	3
1001 102	Design/Foundations of Visual Organization II	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1003 462	Senior Seminar	3
1003 463	Resources and Methods of Research in the Arts	3
One Ancient Art History course		3
One Medieval Art History course		3
One Renaissance Art History course		3
One Baroque Art History course		3
19th or 20th century Art History course		3
Art History elective		3
Studio, Museum Practice, Externship		6

Required Collateral Courses

1103 123 and 134	Intermediate German I and II	6
1509 206	Philosophies of Art	3
1599 200	Old Testament: Genesis to Joshua	3
1599 204	New Testament: Jesus and the Gospels	3
1007 100	Introduction to Theatrical Medium	3
4903 285	Classical Mythology	3
	Theatre History Elective	3

Choose One Course:

2205 103	Foundations of Western Civilization	3
2205 105	Emergence of European Civilization, 1500-1914	3
2205 106	Contemporary Europe, 1914 to the present	3

Free Electives 1

Exhibition Workshop I (G 1091 489) is strongly recommended.

Studies in the Visual Arts (BA)

A liberal arts program for students seeking an understanding and an appreciation of the visual arts.

Required Courses

		Semester Hours
1001 101	Design/Foundations of Visual Organization I	3
1001 102	Design/Foundations of Visual Organization II	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1003 250	Modern Philosophies of Art	3
Three introductory studio courses		9

Five courses selected from the list below in consultation with faculty advisor.

Any 1003 course

1010 299	History of Cinema as Art	3
1090 401	History of Textiles	3
1011 484	History of Photography	3
4921 464	Art and History of the Print	3
4922 341	History of City Form	3
2208 307	The City and the Arts	3
1003 326	The Critical Approach	3
1003 463	Resources and Methods of Research in the Arts	3
1091 330	Museum Practice	3
4922 478	Art in Public Places	3

Fine Arts Education (BA)

A degree program for students who wish to teach art in various settings including museums, community centers, and schools. Certification is for grades kindergarten through 12.

Required Courses

		Semester Hours
1001 101	Design/Foundations of Visual Organization I	3
1001 102	Design/Foundations of Visual Organization II	3
1003 105	Art and Civilization I	3
1003 106	Art and Civilization II	3
1001 201	Color Studies I	3
1001 107	Drawing I or 1001 220 Life Drawing I	3
0831 400	Foundations of Methods and Curriculum in Art Education II: K-12	3
1002 200	Painting I	3
1090 202	Ceramics: Pottery and Sculpture I	3
1090 204	Fibers and Fabrics I	3
1001 209	Theatre Arts I	3
1002 211	Sculpture I	3
1001 211	Graphic Design I: Foundation	3
4921 120	Introduction to Printmaking	3
1090 218	Metalwork and Jewelry I	3
1011 213	Photography I: A Contemporary Art Form	3

Electives (Departmental) 2

Exhibition Workshop I (G 1091 489) is strongly recommended.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog.

Courses of Instruction

G 0831 200
CREATIVE USE OF MEDIA FOR ART EDUCATION 3.0

The development of creative effects through the use of audio-visual equipment by exploration of ways and means suitable to the visual arts area. Art films, slides, two- and three-dimensional materials, light and sound techniques.

G 0831 300
FOUNDATIONS OF METHODS AND CURRICULUM IN ART EDUCATION I: K-12 3.0
Philosophical and theoretical basis of fine arts education; the sources of creativity. Concepts of visual literacy and the role of art in individual human experience and in society; organization and presentation of experience, curriculum construction and application of theory to the school, museum, community center, adult education and other teaching situations. For Fine Arts Education majors this course must be taken simultaneously with Teacher, School and Society in the spring of the junior year.
Prerequisites: T 2001 101, 200; majors only.

G 0831 400
FOUNDATION OF METHODS AND CURRICULUM IN ART EDUCATION II: K-12 3.0
Organization and presentation of art experiences for a wide variety of teaching situations, including K-12, adult classes, museum settings and community centers. Exploration of media, understanding their expressive range, proficiency in their use, and adaptation to various teaching goals. Integration of theory and media.
Prerequisite: G 0831 300; majors only.

G 0831 460
COMPUTER GRAPHICS & NEW TECHNOLOGIES IN ART AND EDUCATION 3.0
Computer generated art and related technologies with direct personal experiences on the microcomputer. Overview of the uses of computer graphics in business, education, creative, artistic and scientific applications. Special emphasis on creative artistic uses for the teaching of art.

G 1001 100
INTRODUCTION TO THE VISUAL ARTS 3.0
The ways in which man has expressed himself in the visual arts including painting, ceramics, sculpture, weaving, printmaking, architecture, the theatre, motion pictures and photography, explored through studio work, demonstrations and trips to art sources. The nature and experience of art, their significance to the individual and their role in a culture. For non-majors.

G 1001 101
DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION I 3.0
Foundations of visual organization, structured to develop the visual and verbal vocabulary through studio experience, lectures and discussions. Perception is heightened by emphasis on light, line, color, plane, texture, form, shape and time as basic elements in all art forms. Two and three dimensional concepts introduced through a variety of materials and processes. Reading and assignments, museum and gallery visits. Required for all art majors.

G 1001 102
DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION II 3.0
Continuation of G 1001 101. Required of all art majors.
Prerequisite: G 1001 101.

G 1001 103
VISUAL ARTS STUDIO I 3.0
The art forms (painting, sculpture, drawing, crafts) experienced through exploration of nature, found and manufactured materials. Creative experiences in studio work relating art to the student's primary area of knowledge; the part art experience can play in his life. For students with limited experience.

G 1001 104
VISUAL ARTS STUDIO II 3.0
Coninuation of G 1001 103. For students with limited experience.
Prerequisite: G 1001 103, instructor's permission.

G 1001 107
DRAWING I 3.0
Basic elements of line, point, shape, figure-ground, and space relationships.

G 1001 201
COLOR STUDIES I 3.0
Color and its interaction through problems in color relatedness; systems and theories; color usage, the development of skills in paint application, use of colored papers and techniques of presentation. Lectures, discussions, reading assignments, museum and gallery visits.
Prerequisites: G 1001 101, 102 or instructor's permission.

G 1001 211
INTRODUCTION TO PAPERMAKING 3.0
Basic methods of making handmade paper as an art form; history and basic principles of handmade paper; contemporary directions and methods of forming.
Prerequisite: G 1001 101 or instructor's permission.

G 1001 212
GRAPHIC DESIGN I: FOUNDATION 3.0
Basic introduction to graphic design methods and techniques; understanding the conceptual base of graphic design as a problem-solving discipline; an overview of the history of graphic design including an introduction to current trends in the field and the major designers responsible for creating them.
Prerequisites: G 1001 101, 107.

G 1001 215
DRAWING II 3.0
Continuation of G 1001 107.
Prerequisite: G 1001 107.

G 1001 220
LIFE DRAWING I 3.0
The structure and proportions of the human form. Expressive drawing is emphasized.

G 1001 275
DRAWING III 3.0
Continuation of G 1001 215.
Prerequisite: G 1001 215.

G 1001 280
LIFE DRAWING II 3.0
Continuation of G 1001 220.
Prerequisite: G 1001 220.

G 1001 301
COLOR STUDIES II 3.0
Continuation of G 1001 201.
Prerequisite: G 1001 201.

G 1001 311
INTERMEDIATE PAPERMAKING I 3.0
Continuation of G 1001 211. Two dimensional and three dimensional forms.
Prerequisite: G 1001 211.

G 1001 313
GRAPHIC DESIGN II: FOUNDATION 3.0
Basic introduction to typography, type comping and hand-lettering. Exploration of the relationship of word and image and its importance in the graphic design process and the elements of organization of typographic forms for power and visual impact.
Prerequisite: G 1001 212 or instructor's permission.

G 1001 314
INTERMEDIATE PAPERMAKING II 3.0
Continuation of G 1001 311. Two dimensional and three dimensional forms.
Prerequisite: G 1001 311.

G 1001 315
DRAWING IV 3.0
Continuation of G 1001 275.
Prerequisite: G 1001 275.

G 1001 339
VISUAL ARTS STUDIO III 3.0
Continuation of G 1001 104. For students with limited experience.
Prerequisite: G 1001 104, instructor's permission.

G 1001 340
DRAWING V 3.0
Continuation of G 1001 315.
Prerequisite: G 1001 315.

G 1001 350
INDEPENDENT STUDY 1.0-6.0
Topics for investigation selected with approval of the instructor. May be repeated for credit.

G 1001 375
GRAPHIC DESIGN III: LAYOUT AND
BEGINNING MECHANICALS 3.0
Basic introduction to the principles of layout including grid systems and their use. Introduction to methods used to turn a design idea into a finished printed piece including basic understanding of printing and beginning paste-up and mechanicals.
Prerequisites: G 1001 212, 313 or instructor's permission.

G 1001 400
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION I 3.0
Topics for investigation selected with the approval of the instructor.

G 1001 401
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1001 400.

G 1001 402
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1001 401.

G 1001 403
INDEPENDENT STUDY IN FOUNDATIONS
OF VISUAL ORGANIZATION IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1001 402.

G 1001 404
INDEPENDENT STUDY IN DRAWING I 3.0
Topics for investigation selected with the approval of the instructor.

G 1001 405
INDEPENDENT STUDY IN DRAWING II 3.0
Topics for investigation selected with approval of the instructor.
Prerequisite: G 1001 404.

G 1001 406
INDEPENDENT STUDY IN DRAWING III 3.0
Topics for investigation selected with approval of the instructor.
Prerequisite: G 1001 405.

G 1001 407
INDEPENDENT STUDY IN DRAWING IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1001 406.

G 1001 411
ADVANCED PAPERMAKING I 3.0
Continuation of G 1001 314. Development of personal expression and direction in the body of work produced.
Prerequisite: G 1001 314.

G 1001 415
GRAPHIC DESIGN IV: ADVANCED LAYOUT
AND PRODUCTION
Continuation of the exploration of the process of layout design including understanding the synthesis of photographic, illustrative, and typographic elements to successfully realize good design solutions. Advanced production including further exploration of printing methods, materials and advanced mechanicals and paste-up.
Prerequisite: G 1001 375.

G 1001 420
INDEPENDENT STUDY—THEATRE ARTS 3.0
Topics for investigation selected with the approval of the instructor.

G 1001 425
MAJOR STUDIO PROJECT I (B.F.A.) 3.0
With faculty advisement, each senior student will design and develop a studio project in a chosen area of specialization. The body of the work will be completed in Major Studio Project II.
Prerequisite: Permission of B.F.A. coordinator.

G 1001 440
ADVANCED PAPERMAKING II 3.0
Continuation of G 1001 411. Development of personal expression and direction in the body of work produced.
Prerequisite: G 1001 411.

G 1001 441
LIFE DRAWING III 3.0
Continuation of G 1001 321.
Prerequisite: G 1001 321.

G 1001 442
LIFE DRAWING IV 3.0
Continuation of G 1001 441.
Prerequisite: G 1001 441.

G 1001 443
INDEPENDENT STUDY IN LIFE DRAWING I 3.0
Topics for investigation selected with approval of the instructor.

G 1001 444
INDEPENDENT STUDY IN LIFE DRAWING II 3.0
Topics for investigation selected with approval of the instructor.
Prerequisite: G 1001 443.

G 1001 447
WORKSHOP IN PERFORMANCE ART 3.0
Study with master performance artists—developing skills in interdisciplinary creative forms of music, dance, visual arts and theatre with multi-media. Incorporation of the history of performance art and learning to use the latest technologies of video, film, synthesizers, and audio visual projections to create an artistic statement. The artists-in-residence will direct and critique the students' performance work.

G 1001 450
MAJOR STUDIO PROJECT II (B.F.A.) 10.0
With faculty advisement, each senior student will complete and present a body of work in an area of extended specialization, the same area of specialization already established and explored in Major Studio I.
Prerequisite: G 1001 425; permission of B.F.A. coordinator.

G 1001 455
ADVERTISING DESIGN 3.0
An introduction to advertising methodologies and philosophies including an exploration of current trends and an overview of the history of advertising. The course will deal with how to take a product, come up with a unique concept and execute it creatively in a rough print ad or TV commercial.
Prerequisite: G 1001 415.

G 1001 460
GRAPHIC DESIGN V: PRODUCTION FOR THE DESIGNER 3.0
How a graphic designer prepares for final client presentation and print media reproduction. Techniques in photo and hand separation mechanicals, comprehensives, type-specification, translation of typewritten manuscripts into body copy designs. Introduction to mechanical materials and tools of the production artist. Scaling of photographs, line options, multicolor registration, screen selection, and how to use this knowledge to guide the design process with respect to paper size, color and photo reproductive budget restrictions.
Prerequisites: G 1001 212, 313, 375, 415 or instructor's permission.

G 1001 465
EXTERNSHIP AND FIELD EXPERIENCE I 2.0-8.0
Involvement beyond the campus in a museum, art institution, or industry, participation in inner-city art programs, or study with an independent artist or artist-craftsman. Approval by a supervising faculty member required. Total semester hours from externship and field experience courses combined (G 1001 465, 466, 467, 468) shall not exceed 8 hours.
Prerequisite: Instructor's permission.

G 1001 466
EXTERNSHIP AND FIELD EXPERIENCE II 2.0-8.0
Continuation of G 1001 465.
Prerequisite: G 1001 465; instructor's permission.

G 1001 467
EXTERNSHIP AND FIELD EXPERIENCE III 2.0-8.0
Continuation of G 1001 466.
Prerequisite: G 1001 466; instructor's permission.

G 1001 468
EXTERNSHIP AND FIELD EXPERIENCE IV 2.0-8.0
Continuation of G 1001 467.
Prerequisite: G 1001 467; instructor's permission.

G 1001 475
DRAWING VI 3.0
Continuation of G 1001 340.
Prerequisite: G 1001 340.

G 1001 486
VISUAL ARTS STUDIO IV 3.0
Continuation of G 1001 339. For students with limited experience.
Prerequisite: G 1001 339.

G 1002 200
PAINTING I 3.0
Exploration of painting media and modes of expression. Reading, gallery and museum visits.

G 1002 201
PAINTING II 3.0
Continuation of G 1002 200.
Prerequisite: G 1002 200.

G 1002 210
VISUAL ARTS WORKSHOP 1.0-12.0
Selected studio topices which represent current concerns within the contemporary world of the visual arts. May be repeated for credit.

G 1002 211
SCULPTURE I 3.0
Sculptural concepts using materials like plaster, metal, plastics, stone and wood. Gallery and museum visits.

G 1002 212
SCULPTURE II 3.0
Continuation of G 1002 211.
Prerequisite: G 1002 211.

G 1002 215
ART FORUM 2.0
Talks and presentations by artists, critics, museum directors, art historians. May be repeated for credit.

G 1002 247
SCULPTURE: FABRICATION I 3.0
Sculpture formed by constructive methods. Form and space relationships: a professional sequence of drawings, model building, testing of materials, joining methods, full-scale execution. Museum visits and reading assignments.

G 1002 249
SCULPTURE: CLAY I 3.0
The use of clay to create sculpture forms; emphasis on developing skills and strengthening understanding of sculpture as an art form. Finished works may be composed of fired clay or unfired clay or clay in combination with other materials.
Prerequisite: G 1090 202.

G 1002 250
FIGURATIVE PAINTING 3.0
Rendering the human figure and expressing creative insights into figurative painting.
Prerequisite: G 1002 200, instructor's permission.

G 1002 257
SCULPTURE: FABRICATION II 3.0
Continuation of G 1002 247.
Prerequisite: G 1002 247.

G 1002 259
SCULPTURE: CLAY II 3.0
Continuation of G 1002 249.
Prerequisite: G 1002 249.

G 1002 260
METALS I 3.0
Production of sculpture through the casting or welding processes. With the permission of the instructor, a student may select to concentrate in one of these areas throughout the semester, explore both approaches to metal sculpture or combine both processes in finished pieces. Slide lectures, critiques and visits to galleries and museums in New York.
Prerequisite: G 1002 246 and 247, or permission of instructor.

G 1002 270
METALS II 3.0
Continuation of G 1002 260.
Prerequisite: G 1002 260.

G 1002 308
SCULPTURE III 3.0
Continuation of G 1002 212.
Prerequisite: G 1002 212.

G 1002 309
SCULPTURE IV 3.0
Continuation of G 1002 308.
Prerequisite: G 1002 308.

G 1002 316
PAINTING III 3.0
Continuation of G 1002 201.
Prerequisite: G 1002 201.

G 1002 317
PAINTING IV 3.0
Continuation of G 1002 316.
Prerequisite: G 1002 316.

G 1002 347
SCULPTURE: FABRICATION III 3.0
Continuation of G 1002 257.
Prerequisite: G 1002 257.

G 1002 349
SCULPTURE: CLAY III 3.0
Continuation of G 1002 259.
Prerequisite: G 1002 259.

G 1002 350
METALS III 3.0
Continuation of G 1002 270.
Prerequisite: G 1002 270.

G 1002 408
INDEPENDENT STUDY: PAINTING I 3.0
Topics for investigation selected with approval of instructor.

G 1002 409
INDEPENDENT STUDY: PAINTING II 3.0
Topic for investigation selected with approval of instructor.
Prerequisite: G 1002 408.

G 1002 410
INDEPENDENT STUDY: PAINTING III 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: G 1002 409.

G 1002 411
INDEPENDENT STUDY: PAINTING IV 3.0
Topics for investigation with approval of instructor.
Prerequisite: G 1002 410.

G 1002 415
PAINTING V 3.0
Continuation of G 1002 317.
Prerequisite: G 1002 317.

G 1002 416
PAINTING VI 3.0
Continuation of G 1002 415.
Prerequisite: G 1002 415.

G 1002 421
INDEPENDENT STUDY: SCULPTURE I 3.0
Topics for investigation selected with approval of instructor.

G 1002 422
INDEPENDENT STUDY: SCULPTURE II 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: G 1002 421.

G 1002 423
INDEPENDENT STUDY: SCULPTURE III 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: G 1002 422.

G 1002 424
INDEPENDENT STUDY-SCULPTURE IV 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: G 1002 423.

G 1002 450
METALS IV 3.0
Continuation of G 1002 350.
Prerequisite: G 1002 350.

G 1002 489
SCULPTURE: CLAY IV 3.0
Continuation of G 1002 349.
Prerequisite: G 1002 349.

G 1002 497
SCULPTURE: FABRICATION IV 3.0
Continuation of G 1002 347.
Prerequisite: G 1002 347.

G 1003 105
ART AND CIVILIZATION I 3.0
The history of art from its beginning to the present. Museum visits and extensive reading. Required for fine art majors.

G 1003 106
ART AND CIVILIZATION II 3.0
Continuation of G 1003 105. Required for fine arts majors.
Prerequisite: G 1003 105.

G 1003 108
WOMEN IN ART 3.0
Introduce and interpret the role and status of women in art from the Old Stone Age through the present. After a brief historical introduction to the special roles of women in the past in society, the role of women artists in Western culture will be explored from the Renaissance to the present, as well as depictions of women in different iconographic categories. Finally, women as artists today will be discussed in terms of their current social position.

G 1003 215
ANCIENT ART 3.0
The origins of man's art and civilizations of the ancient world: Paleolithic man and the Sumerian, Hittite, Assyrian, Phoenician and Egyptian civilizations.

G 1003 216
RENAISSANCE ART IN ITALY: THE FIFTEENTH CENTURY 3.0
The formation of Renaissance painting, sculpture and architecture during the Quatrocento, Masaccio, Mantegna, Donatello, Brunelleschi, and Alberti emphasized.

G 1003 217
SELECTED MASTERPIECES OF WORLD ART 3.0
An introduction to key works of art representing prehistoric cultures, the ancient world, the East, the Renaissance, and the modern period. Museum and gallery trips, reading and discussion. For non-Art majors.

G 1003 220
ART IN NON-WESTERN SOCIETIES 3.0
A consideration of the role of art in traditional non-western societies, including an examination of the integration of art into the society as a whole, the religions, economics, environment and social order; the role art plays in social change and how it is affected by social change.

G 1003 250
MODERN PHILOSOPHIES OF ART 3.0
The work of major writers about art in the nineteenth and twentieth centuries; the nature of the creative experience, the function of art in the life of the individual and of society, the nature of the creative process, the rise of new materials and institutions, the development of sentiments and attitudes affecting thinking in the field.

G 1003 275
AFRO-AMERICAN ART 3.0
Afro-American art in the United States from colonial times to the present.

G 1003 322
EARLY CHRISTIAN-BYZANTINE ART 3.0
The emergence and development of early Christian art from its classical and late classical antecedents and its development up to Byzantine art.

G 1003 323
MEDIEVAL ART 3.0
Painting, sculpture and architecture in the Romanesque and Gothic periods.

G 1003 324
NORTHERN RENAISSANCE PAINTING 3.0
Fifteenth and sixteenth century painting in northern Europe with particular attention to Flanders and Holland; emphasis on Jan Van Eyck, Van der Weyden, Bosch, Peter Bruegel, and Matthias Gruenewald.

G 1003 325
SEVENTEENTH AND EIGHTEENTH CENTURY ART 3.0
Painting, sculpture, and architecture in western Europe from 1600 to 1800. Baroque and Rococco styles with emphasis on El Greco, Bernini, Rubens, Rembrandt, Poussin and Watteau.

G 1003 327
HISTORY OF ORIENTAL ART 3.0
The factors that shaped oriental society, the art of China, Korea, Japan, India, southeast Asia and the neighboring Islamic world.

G 1003 328
SURVEY OF GREEK ART 3.0
Greek art including painting, sculpture and architecture from the Bronze Age through the Hellenistic period.

G 1003 329
AMERICAN ART 3.0
Art in the United States from the colonial period through the nineteenth century; the development of an American style in the light of its relationship to and dependence upon European art.

G 1003 332
ANCIENT ART OF EUROPE 3.0
The non-classical traditions in prehistoric and early medieval Europe; the continuity of native, anticlassical artistic trends from the cave art of paleolithic Europe to the migration arts of the early Middle Ages; the arts of the builders of Stonehenge, the Scythians, Huns, Celts, Goths, and Vikings.
Prerequisite: Instructor's permission.

G 1003 450
MODERN ARCHITECTURE 3.0
Major contributions to the development of modern architecture in the nineteenth and twentieth centuries, the development of styles, structural innovations and theories of design.

G 1003 451
CONTEMPORARY ART 3.0
The work of major artists of the twentieth century with particular reference to the dominant ideas of the period; readings, museum trips, discussion of contemporary writing and criticism.

G 1003 452
RENAISSANCE ART IN ITALY: THE SIXTEENTH CENTURY 3.0
The great masters of the Cinquecento: Leonardo, Michelangelo, Raphael, Giorgione and Titian; the emergence of mannerist art in Rome, Venice, Florence and Bologna.

G 1003 454
FIELD TRIPS IN ART HISTORY 3.0
An intensive three-week tour of major centers of art in conjunction with specific courses in art history, e.g., field trips in the United States or abroad. Offered only during winter session.

G 1003 455
SELECTED PROBLEMS IN ART HISTORY 3.0
A seminar in topics like the works of an individual artist or a particular theme in art history (e.g. the human figure) or a particular technique (e.g. sculpture); lectures, reports, museum and studio visits, discussion. May be repeated for credit.

G 1003 458
TRADITIONAL ARTS OF SUB-SAHARAN AFRICA 3.0
The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings, relation to ceremony and to daily life; symbolism and relations to the arts of other cultures.

G 1003 459
ART OF THE NINETEENTH CENTURY 3.0
The major movements of the nineteenth century; classicism, romanticism and realism; the salon of midcentury, impressionism, post-impressionism.

G 1003 462
SENIOR SEMINAR 3.0
Seminar is selected artistic problems of historic, social and philosophical nature.
Prerequisite: Instructor's permission.

G 1003 463
RESOURCES AND METHODS OF RESEARCH IN THE ARTS 3.0
Bibliographic and other scholarly resources; the special problems of scholarship and research.

G 1003 469
ART OF THE TWENTIETH CENTURY 3.0
From Picasso to today; scientific and social forces transforming the artist's vision, including the theories of Freud and Bergson.

G 1003 483
INDEPENDENT STUDY IN ART HISTORY 2.0-8.0
May be repeated for credit.
Prerequisite: Instructor's permission.

G 1003 485
ANCIENT ART IN ITALY, ETRUSCAN AND ROMAN ART 3.0
The arts of the Etruscans and Romans in their historical, cultural and religious settings.

G 1010 218
FILMMAKING I 3.0
Basic elements of Super 8 film production: script, camera, lighting, sound, editing, animation.

G 1010 219
FILMMAKING II 3.0
Basic elements of 16 mm film production. Script, camera, lighting, sound editing, animation.
Prerequisite: G 1010 218, instructor's permission.

G 1010 221
VIDEO-TELEVISION AS AN ART FORM I 3.0
Students are introduced to criteria for aesthetic decision-making by producing video projects that record the real world, persuade or move viewers to action, express the student's personal visions and illustrate aesthetic values. Students are given skills of video production and its relationship to visual aesthetics.
Prerequisite: Permission of instructor.

G 1010 222
VIDEO-TELEVISION AS AN ART FORM II 3.0
Continuation of G 1010 221
Prerequisite: G 1010 221, instructor's permission.

G 1010 299
HISTORY OF CINEMA AS ART 3.0
The development of the motion picture as an art form from its earliest stage to the present; the technical, social, economic, cultural and aesthetic factors. May be repeated once for credit.

G 1010 336
VIDEO-TELEVISION AS AN ART FORM III 3.0
Continuation of G 1010 222.
Prerequisite: G 1010 222, instructor's permission.

G 1010 453
FILMMAKING III 3.0
Continuation of G 1010 219.
Prerequisite: G 1010 219.

G 1010 474
VIDEO-TELEVISION AS AN ART FORM IV 3.0
Continuation of G 1010 336.
Prerequisite: G 1010 336, instructor's permission.

G 1010 491
INDEPENDENT STUDY IN FILM I 3.0
Topics selected with the approval of the instructor.

G 1010 492
INDEPENDENT STUDY IN FILM II 3.0
Topics selected with the approval of the instructor.
Prerequisite: G 1010 491.

G 1010 493
INDEPENDENT STUDY IN FILM III 3.0
Topics selected with the approval of the instructor.
Prerequisite: G 1010 492.

G 1010 494
INDEPENDENT STUDY IN FILM IV 3.0
Topics selected with the approval of the instructor.
Prerequisite: G 1010 493.

G 1010 499
FILMMAKING IV 3.0
Continuation of G 1010 453.
Prerequisite: G 1010 453.

G 1011 213
PHOTOGRAPHY I: A CONTEMPORARY ART FORM 3.0
The essentials of the photographic process including developing, enlarging, and exhibiting. Trips, films, discussions, lectures, criticism and demonstration.

G 1011 214
INTERMEDIATE PHOTOGRAPHY: A CONTEMPORARY ART FORM 3.0
Continuation of G 1011 213.
Prerequisite: G 1011 213.

G 1011 310
ADVANCED PHOTOGRAPHY: A CONTEMPORARY ART FORM 4.0
Workshop, discussion, lecture, demonstrations, criticism; photography as an intensive learning experience; light sensitive materials, controls, photographic approach, selection, system and view camera.
Prerequisite: G 1011 214.

G 1011 311
SPECIAL PROCESS IN PHOTOGRAPHY 4.0
Non-traditional light sensitive materials for use in the photographic image making process; extension of traditional boundaries of photography through new tools permitting greater image manipulation; gum bichromate, cyanotype, platinum, photo etching, and others.
Prerequisite: G 1011 214.

G 1011 410
THE COLOR PHOTOGRAPHIC PRINT: A CONTEMPORARY AESTHETIC APPROACH 4.0
Photographic and printing techniques for color; history of color photographic print. Museum and gallery visits.
Prerequisite: G 1011 310 or instructor's permission.

G 1011 425
INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM I 3.0
Topics for investigation selected with the approval of the instructor.

G 1011 426
INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM II 3.0
Topics for investigation are selected with the approval of the instructor.
Prerequisite: G 1011 425.

G 1011 427
INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1011 426.

G 1011 428
INDEPENDENT STUDY IN PHOTOGRAPHY: A CONTEMPORARY ART FORM IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1011 427.

G 1011 450
COMMERCIAL PHOTOGRAPHY 4.0
Workshop and problem solving of commercial applications in photography; view camera to 35mm, color and black and white materials, studio lighting, photo illustration, photo essay, marketing. Field trips, visiting professionals.
Prerequisite: G 1011 310, majors only.

G 1011 484
A HISTORY OF PHOTOGRAPHY 3.0
The roots of photography; its practitioners and the social and historical circumstances surrounding its creation.

G 1090 200
LEATHER I 3.0
Use of skins and hides to create items of artistic and/or functional value. Emphasis on the design and execution of works in one or all forms of leather and fur.

G 1090 202
CERAMICS: POTTERY AND SCULPTURE I 3.0
Forming methods, clay composition, glazing and firing, the history of ceramics.

G 1090 203
CERAMICS: POTTERY AND SCULPTURE II 3.0
Continuation of G 1090 202.
Prerequisite: G 1090 202.

G 1090 204
FIBERS AND FABRICS I 3.0
Techniques employed by fiber artists and the textile industry; on-loom and off-loom weaving, spinning and vegetable dyeing, and fabric and fiber techniques in contemporary work.

G 1090 205
FIBERS AND FABRICS II 3.0
One or more areas of endeavor selected for exploration. Emphasizes research into the various techniques and mastery of the methods.
Prerequisite: G 1090 204.

G 1090 206
LEATHER II 3.0
Continuation of G 1090 200.
Prerequisite: G 1090 200.

G 1090 207
SURFACE DESIGN I 3.0
Selected printing, dyeing and fabric manipulation techniques.
Prerequisite: G 1090 204.

G 1090 210
TEXTILE DESIGN I 3.0
Pattern rendering and putting designs into repeat for the textile industry.

G 1090 211
TEXTILE DESIGN II 3.0
Advanced course in designing prints for the textile industry. Primary emphasis is the further development of a personal aesthetic appropriate to industry needs as well as that of the student-designer.
Prerequisite: G 1090 210.

G 1090 218
METALWORK AND JEWELRY I 3.0
Introduction to metal working and jewelry techniques traditionally used in the shaping of useful articles.

G 1090 219
METALWORK AND JEWELRY II 3.0
Advanced design concepts and metalworking techniques.
Prerequisite: G 1090 218.

G 1090 225
SURFACE DESIGN II 3.0
Continuation of G 1090 207.
Prerequisite: G 1090 207.

G 1090 301
CERAMICS: POTTERY AND SCULPTURE III 3.0
Continuation of G 1090 203.
Prerequisite: G 1090 203.

G 1090 302
CERAMICS: POTTERY AND SCULPTURE IV 3.0
Continuation of G 1090 301.
Prerequisite: G 1090 301.

G 1090 304
FIBERS AND FABRICS III 3.0
Further exploration of a technique or techniques selected by the student. A research paper on the historical implications of a technique and a final project are required.
Prerequisite: G 1090 205.

G 1090 305
FIBERS AND FABRICS IV 3.0
Exploration of area or areas of textile techniques selected by the student. An exhibit of work done during the semester is to be planned and hung by the student.
Prerequisite: G 1090 304.

G 1090 310
LEATHER III 3.0
Continuation of G 1090 206.
Prerequisite: G 1090 206.

G 1090 320
SURFACE DESIGN III 3.0
Continuation of G 1090 225.
Prerequisite: G 1090 225.

G 1090 325
SURFACE DESIGN IV 3.0
Continuation of G 1090 320.
Prerequisite: G 1090 320.

G 1090 335
METALWORK AND JEWELRY III 3.0
Traditional techniques, advanced design concepts and techniques.
Prerequisite: G 1090 219.

G 1090 350
CERAMICS: POTTERY AND SCULPTURE V 3.0
Continuation of G 1090 302.
Prerequisite: G 1090 302.

G 1090 400
TEXTILE TRADITIONS 3.0
Study of the unchanged textile traditions of both the East and West and their relations to the contemporary fiber experience.

G 1090 401
HISTORY OF TEXTILES 3.0
The evolution of textile equipment and techniques from primitive cultures to the contemporary era.

G 1090 412
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE I 3.0
Topics for investigation selected with the approval of the instructor.

G 1090 413
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1090 412.

G 1090 414
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1090 413.

G 1090 415
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE IV 3.0
Topics for investigation are selected with approval of the instructor.
Prerequisite: G 1090 414.

G 1090 416
INDEPENDENT STUDY IN TEXTILES I 3.0
Topics for investigation selected with the approval of the instructor.

G 1090 417
INDEPENDENT STUDY IN TEXTILES II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1090 416.

G 1090 418
INDEPENDENT STUDY IN TEXTILES III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1090 417.

G 1090 419
INDEPENDENT STUDY IN TEXTILES IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1090 418.

G 1090 420
SURFACE DESIGN V 3.0
Continuation of G 1090 325.
Prerequisite: G 1090 325.

G 1090 425
SURFACE DESIGN VI 3.0
Advanced studies in printing, dyeing and manipulation of fabric techniques.
Prerequisite: G 1090 420.

G 1090 436
METALWORK AND JEWELRY IV 3.0
Continuation of G 1090 335.
Prerequisite: G 1090 335.

G 1090 437
INDEPENDENT STUDY IN METALWORK AND JEWELRY I 3.0
Topics for investigation selected with the approval of the instructor.

G 1090 438
INDEPENDENT STUDY IN METALWORK AND JEWELRY II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1090 437.

G 1090 439
INDEPENDENT STUDY IN METALWORK AND JEWELRY III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1090 438.

G 1090 440
INDEPENDENT STUDY IN METALWORK AND JEWELRY IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: G 1090 439.

G 1090 441
FIBERS AND FABRICS V 3.0
Continuation of G 1090 305.
Prerequisite: G 1090 305.

G 1090 442
FIBERS AND FABRICS VI 3.0
Continuation of comprehensive studies in progress through Fibers and Fabrics I-V.
Prerequisite: G 1090 441.

G 1090 480
CERAMICS: POTTERY AND SCULPTURE VI 3.0
Continuation of G 1090 350.
Prerequisite: G 1090 350.

G 1090 496
LEATHER IV 3.0
A continuation of the study of skins, hides and fur as creative materials. Emphasis is placed on the use of the basic skills learned in the preceding courses.
Prerequisite: G 1090 310.

G 1091 330
MUSEUM PRACTICE 3.0
A study of museum techniques, much of it at museums in the metropolitan area with the participation of their staffs. Field trips and, if possible, brief apprenticeships.

G 1091 489
EXHIBITION WORKSHOP I 3.0
Exhibition techniques and procedures. Mounting of shows on campus.

G 1091 490
EXHIBITION WORKSHOP II 3.0
Continuation of G 1091 489.
Prerequisite: G 1091 489.

G 1095 250
INTRODUCTION TO ART THERAPY 3.0
An historical and theoretical overview including the literature and current trends in the field. Students will use a variety of art materials to express personal symbolism, fantasy, and dreams. Open to non-majors.

G 1095 450
STUDIO TECHNIQUES IN ART THERAPY 3.0
Materials and techniques of art therapy are directly experienced through practice. Open to non-majors. No previous art background is required.
Prerequisite: G 1095 250.

G 1095 460
ART THERAPY PRACTICE 3.0
Discussion of case presentations from fieldwork to integrate clinical and didactic experiences.
Prerequisite: G 0831 450.

G 4921 120
INTRODUCTION TO PRINTMAKING 3.0
Woodcut, screen printing and monoprints; etching, drypoint and lithography. Exploration of new and advanced techniques.

G 4921 200
INTRODUCTION TO INTAGLIO AND
RELIEF PRINTING 3.0
Drypoint, engraving, etching and major techniques like line and open bite, soft ground, stop out procedure, life ground, mezzotint and aquatint.

G 4921 201
INTRODUCTION TO SCREEN PRINTING 3.0
Screen printing including miskit, tusche, glue, lacquer and stencil and photographic techniques.

G 4921 202
INTRODUCTION TO LITHOGRAPHY 3.0
Chemicals, tools, materials and techniques of the process.

G 4921 220
GRAPHIC TECHNOLOGY FOR THE
ARTIST AND DESIGNER 3.0
A survey of the techniques used in the production of all printed material. Students will gain experience in the use of materials and equipment commonly used by commercial printers, graphic designers, photographers, and printmakers. (Use of the following materials: Orthochromatic films and papers, Cibachrome color process materials, Diazo materials, 3-M Color Key proofing films. Use of the following machines: Vertical Copy Camera, Ilford Color Copier, Diazo Machine, Platemaker, Diffusion Transfer Processor.)

G 4921 230
HISTORY OF THE PRINT 3.0
The principal types of prints from their beginnings to today. For both majors and students in other fields.

G 4921 334
MEDIA COMMUNICATION I: PUBLICATION
DESIGN 3.0
Advanced design problems for publications ranging from posters to brochures, pamphlets and booklets to magazines and other editorial formats emphasizing two-dimensional multiple page or multiple panel layout. Character count and projection of space requirements, economics of paper stock and size selection, exploiting the potential on one, two and three color jobs through screens and over-printing.
Prerequisite: G 1001 212, 313, 375, 415, 460 or instructor's permission.

G 4921 340
MEDIA COMMUNICATION II:
PACKAGE DESIGN 3.0
A survey of the state of the art in packaging. Course projects will be based on the consumer product industry. Graphic problems for three-dimensional objects and display. Package design comprehensive techniques for Art Director and client presentation. Grasping product essence and interpreting client needs and the demands of the marketplace.
Prerequisite: G 4921 334.

G 4921 344
TYPOGRAPHY I 3.0
Advanced problems of typographic design including headline letter spacing, complex problems of body copy design and the fine points of leading, column width, copy color, mixing of faces, use of negative space in typographic composition so that an idea is communicated without actually being read. Study of the great typographic designers of our time and the subleties of personal style. Current trends in typography.
Prerequisites: G 1001 212, 313, 375, 415, 460 or instructor's permission.

G 4921 348
TYPOGRAPHY II: CORPORATE IDENTIFICATION
SYSTEMS AND LOGO DESIGN 3.0
Analysis of identity systems from cottage industries to corporate giants. Development, presentation, consistency and projected public image. Historical roots of identity symbols and systems from ancient to contemporary in religious, political and social usage. Design problems in logo and system design.
Prerequisites: G 1001 212, 313, 375, 415, G 4921 344.

G 4921 350
ILLUSTRATION I: SURVEY OF CONCEPTS
AND METHODS 3.0
A study of the major historical and contemporary themes of illustration and its influences. Through slide presentation the work of leading illustrators will be shown and discussed, and the relationship between commercial art and fine art will be explored. Illustration assignments will provide concrete experience of the related thematic issues and introduce formal approaches and relevant techniques.
Prerequisites: G 1001 212 or instructor's permission.

G 4921 352
ILLUSTRATION II 3.0
Approaches to illustration and applications of illustration techniques within selected professional fields, such as book illustration and children's book illustration; media illustration; record, greeting card and poster illustration; and humorous and satirical illustration. One of these professional fields will be explored each semester, in rotation.
Prerequisite: G 4921 350.

G 4921 354
ILLUSTRATION III 3.0
Continuation of Illustration II.
Prerequisite: G 4921 352.

G 4921 356
ILLUSTRATION IV 3.0
Continuation of Illustration III.
Prerequisite: G 4921 354.

G 4921 363
ADVANCED PRINTMAKING I 3.0
Consideration of printmaking media. Particular attention to the growth and development of art-making concepts as they relate to the printmaking processes.

G 4921 364
ADVANCED PRINTMAKING II 3.0
Continuation of G 4921 363.
Prerequisite: G 4921 363.

G 4921 400
ADVANCED PRINTMAKING III 3.0
Continuation of G 4921 364.
Prerequisite: G 4921 364.

G 4921 401
ADVANCED PRINTMAKING IV 3.0
Continuation of G 4921 400.
Prerequisite: G 4921 400.

G 4921 431
INDEPENDENT STUDY IN PRINTMAKING I 3.0
Topics for investigation selected with approval of instructor.

G 4921 432
INDEPENDENT STUDY IN PRINTMAKING II 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: G 4921 431.

G 4921 433
INDEPENDENT STUDY IN PRINTMAKING III 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: G 4921 432.

G 4921 434
INDEPENDENT STUDY IN PRINTMAKING IV 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: G 4921 433.

G 4921 470
INDEPENDENT STUDY IN MULTI-IMAGE MEDIA 3.0
Use of media for presentation, exhibition or publication. Topics selected with the approval of the instructor.



French

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Madeleine Sergent

The department of French provides courses that develop linguistic skills, literary appreciation, and an understanding of the French people and their culture.

French majors may choose the translation-interpretation concentration to enhance their linguistic skills or to enter careers related to international organizations. They may also take related business courses.

Students may specialize in teacher education and prepare for careers as secondary school teachers. Students may also select a minor or a second teaching field in French.

It is highly recommended that majors spend a year, a semester, or a summer studying in a French speaking country. This study should be planned for the junior year. The French Department has affiliated itself with the University of Massachusetts' Study Abroad programs which offer the flexibility of a Summer Session in Dijon, a Spring Semester in Angers, and a full year in Paris. Other options are also possible.

French Major

Required Courses (Liberal Arts)

		Semester Hours
1102 150, 151	French Stylistics and Composition I, II	3 each
1102 155	French Phonetics	2
1102 250	Advanced Composition	3
1102 220	Explication de Texte	3
1102 201	17th Century French Literature (Prerequisite: 1102 220)	3
1102 210	18th Century French Literature (Prerequisite: 1102 220)	3
1102 301	19th Century French Literature (Prerequisite: 1102 220)	3
1102 310	20th Century French Literature (Prerequisite: 1102 220)	3
1102 360	French Perspectives (Prerequisite: 1102 220)	3

Electives (Major)

Select 8 semester hours from the appropriate list to be obtained from the department 8

Total 37

Teacher Education

1102 150, 151	French Stylistics and Composition I, II	3 each
1102 155	French Phonetics	2
1102 250	Advanced Composition	3
1102 220	Explication de Texte	3
1102 310	20th Century French Literature (Prerequisite: 1102 220)	3
1102 360	French Perspectives	3
1102 410	Advanced French Grammar	3

Select two

1102 201	17th Century French Literature (Prerequisite: 1102 220)	3
1102 210	18th Century French Literature (Prerequisite: 1102 220)	3
1102 301	19th Century French Literature (Prerequisite: 1102 220)	3

Electives (Major)

Select 8 semester hours from the appropiate list to be obtained from the department 8

1505 210 Introduction to General Linguistics 3
(Recommended for all French majors.)

Total 37

Concentration Programs Within the Major

Translation

Required Courses

		Semester Hours
1102 150, 151	French Stylistics and Composition I, II	3 each
1102 155	French Phonetics	2
1102 160	French Civilization: 19th and 20th Centuries	3
1102 220	Explication de Texte	3
1102 250	Advanced Composition	3
1102 310	20th Century French Literature	3
1102 350	Translation I	3
1102 351	Translation II	3
1102 360	French Perspectives	3
1102 365	Introduction to Consecutive and Simultaneous Interpreting or	3
1102 452	Translation III	3
1102 410	Advanced French Grammar	3

Electives (Major)

From the appropriate list, select 6 semester hours of which 3 s.h. must be in literature 6

Total 41

French Minor

Required Courses (Liberal Arts Emphasis)

1102 150, 151	French Stylistics and Composition I, II	3 each
1102 155	French Phonetics	2
1102 220	Explication de Texte	3

Electives (Major)

French Literature and Civilization 7

Total 18

Required Courses (Business Emphasis)

		Semester Hours
1102 121, 132	Intermediate French I, II	3 each
1102 150, 151	French Stylistics and Composition I, II	3 each
1102 135	Commercial French I	3
1102 165	Spoken Language Practice	3
1102 145	Introduction to French Culture	3

Total 21

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. In addition, French majors must have a "B" average in French, take the Teacher Education courses under the French Major Requirements, and 1102 419 The Teaching of French in Secondary Schools.

Second Teaching Field in French

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

Required Courses

1102 150, 151 French Stylistics and Composition I, II ..... 3 each
1102 155 French Phonetics 2
1102 220 Explication de Texte 3
1102 250 Advanced Composition 3
1102 165 Spoken Language Practice 3
1102 410 Advanced French Grammar 3

Electives

From the appropriate list, select 10 semester hours of which 3 s.h. must be in literature and 3 s.h. in civilization 10

NOTE: If a student has not taken a teaching methods course in a foreign language, it is necessary to take O 1102 419, The Teaching of French in Secondary Schools.

Total 30

Courses of Instruction

O 1102 101
BEGINNING FRENCH I 3.0
For students starting French in college, or students who have been placed at this level after taking the Placement Test. The fundamentals of speaking, reading and writing through classroom drill, video-cassettes and laboratory work.

O 1102 112
BEGINNING FRENCH II 3.0
For students having completed Beginning French I or who have been placed at this level after taking the Placement Test. Continuation of basic skills through classroom drill, video-cassette and laboratory work.
Prerequisite: O 1102 101 or equivalent.

O 1102 121
INTERMEDIATE FRENCH I 3.0
Developing of listening, reading and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available.
Prerequisite: O 1102 112 or equivalent.

O 1102 132
INTERMEDIATE FRENCH II 3.0
Developing of listening, reading, and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available.
Prerequisite: O 1102 121 or equivalent.

O 1102 135, 136
COMMERCIAL FRENCH I, II 3.0 each
A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises.
Prerequisite: O 1102 151 or equivalent.

O 1102 145
INTRODUCTION TO FRENCH CULTURE 3.0
Various aspects of contemporary France such as politics, education, social and artistic movements.
Prerequisite: O 1102 121.

O 1102 146
READINGS IN FRENCH LITERATURE 3.0
Representative selections from major works and authors providing a general knowledge of French literature and socio-cultural movements through the ages.
Prerequisite: O 1102 121.

O 1102 150
FRENCH STYLISTICS AND COMPOSITION I 3.0
Skills of French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.
Prerequisite: O 1102 132 or equivalent.

O 1102 151
FRENCH STYLISTICS AND COMPOSITION II 3.0
Skills of French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.
Prerequisite: O 1102 150.

O 1102 155
FRENCH PHONETICS 2.0
Weekly transcriptions, problems of articulation, rhythm, accentuation and intonation. Intensive language laboratory work.

O 1102 160
FRENCH CIVILIZATION: 19TH AND 20TH CENTURIES 3.0
Various aspects of the material, intellectual, artistic, and spirtual life of France.

O 1102 165
SPOKEN LANGUAGE PRACTICE 3.0
Intensive conversation with organized discussions on subjects of special interest.

O 1102 201
SEVENTEENTH CENTURY FRENCH LITERATURE 3.0
The most representative authors of the century.

O 1102 210
EIGHTEENTH CENTURY FRENCH LITERATURE 3.0
Main writings of the age of enlightenment.

O 1102 220
EXPLICATION DE TEXTE 3.0
Improvement of reading skills and literary perception through the technique of the Explication de Texte,using examples from a wide variety of periods and genres.
Prerequisite: O 1102 151.

O 1102 250
ADVANCED COMPOSITION 3.0
A review of advanced grammar through intensive written and oral practice.

O 1102 260
ORIGINS OF FRENCH CIVILIZATION 3.0
French history and cultural development from the Middle Ages to the Revolution.

O 1102 265
ADVANCED SPOKEN LANGUAGE PRACTICE 3.0
Intensive conversation on an advanced level on selected and varied topics.

O 1102 301
NINETEENTH CENTURY FRENCH LITERATURE 3.0
Principal literary currents from romanticism to symbolism.

O 1102 310
TWENTIETH CENTURY FRENCH LITERATURE 3.0
Representative works of contemporary theatre and the novel.

O 1102 311
CONTEMPORARY FRENCH DRAMA 2.0
Theatre from the beginning of the century to the present.

O 1102 345
DEVELOPMENT OF FRENCH NOVEL TO 1900 3.0
Evolution of fiction from the feminist writings of Mme. de la Fayette and Diderot's literature of social involvement to the present.

O 1102 349
FRANCOPHONE LITERATURE 3.0
Literature of French expression outside continental France.

O 1102 350
TRANSLATION I 3.0
Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.

O 1102 351
TRANSLATION II 3.0
Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.
Prerequisite: O 1102 350.

O 1102 360
FRENCH PERSPECTIVES 3.0
A French viewpoint on contemporary problems emphasizing interrelationships of political, social and economic fields.

O 1102 365
INTRODUCTION TO CONSECUTIVE AND SIMULTANEOUS INTERPRETING 3.0
The field of cross-cultural communications (with emphasis on the French-speaking world) and practice in the techniques of simultaneous and consecutive interpreting, French-English, English-French.
Prerequisites: O 1102 350, O 1102 351.

O 1102 367, 368, 369
SEMINARS 3.0-12.0 each
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

O 1102 375
FRENCH STUDY ABROAD Credit by evaluation
Study at a university in a French speaking country to gain first-hand knowledge of the historical, social, economic, and cultural life of the country. Options include Summer Session in Dijon, Spring Semester in Angers or a full year in Paris. See Junior Year Abroad Advisor.

O 1102 380
COOPERATIVE EDUCATION FOR THE FRENCH MAJOR 4.0-8.0
Supervised work experience and academic project in professional field related to major.

O 1102 410
ADVANCED FRENCH GRAMMAR 3.0
A review of the most important structural features of French, with special emphasis on areas of interference with English structure.

O 1102 419
THE TEACHING OF FRENCH IN SECONDARY SCHOOLS 3.0
Lesson planning, evaluation of techniques, demonstration of teaching procedures, teaching aids, exploration of direct method and audio-lingual approaches.

O 1102 452
TRANSLATION III 3.0
Translation of articles in specific fields of interest to improve translation skills.
Prerequisites: O 1102 350, O 1102 351.

O 1102 470
SEMINAR 3.0
Selected topic to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

O 1102 472
FRENCH LANGUAGE WORKSHOP 2.0
A thorough foundation in French at the level required for successful graduate studies.

O 1102 478
INDEPENDENT STUDY 1.0-3.0
Directed independent study and research in French language and literature.

German and Slavic

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: John V. Moore

A command of the German or Russian language with an understanding of the respective literature and culture is the object of the courses offered by the department. The German program offers a liberal arts major, a teacher education major plus a second teaching field and a liberal arts minor. The Russian program offers a liberal arts minor and a second teaching field, as well as required courses for the Russian Area Studies minor.

Because it is important to learn to speak a language in the native setting, German majors are encouraged to study in a German-speaking country. With departmental approval, academic credit can be given for this experience.

German Major

Required Courses

		Semester Hours
1103 141	Review of Fundamental Grammar	3
1103 151, 152	Advanced German I, II	3 each
1103 251, 252	Introduction to German Literature I, II	3 each
1103 351, 352	German Civilization I, II	3 each

Electives (Major)

Select 12 semester hours from the appropriate list to be obtained from the department 12

German Minor

Required Courses

	Semester Hours
1103, 141 Review of Fundamental Grammar	3
1103 151, 152 Advanced German I, II	3 each

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Russian Minor*

Required Courses

1106 101 and 112 Beginning Russian I, II	6
1106 121 and 132 Intermediate Russian I, II	6
1106 141 and 152 Advanced Russian I, II	6

Russian Area Studies Minor

Required Courses

1106 101, 112 Beginning Russian I, II	6
Soviet History or Political Science (see department entries)	6

Electives (Departmental)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Electives (Interdepartmental)

The Russian Area Studies minor is interdisciplinary, and appropriate elective courses may be selected from the Departments of History, Political Science, Geography, and Economics, as well as from offerings in Russian language, literature and civilization, with permission of the program coordinator.

*Other courses may be selected under certain circumstances with departmental approval.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. The following are the departmental course requirements for the program.

	Semester Hours
1103 410 German Grammar: Applied Linguistics	3
1103 419 Teaching German in Secondary Schools	3

Electives (Not required but recommended)

1103 142 Practice in Written German	3
1103 209 Phonetics and Phonology	3

Second Teaching Field in German

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

1103 141 Review of Fundamental Grammar	3
1103 151, 152 Advanced German I, II	3 each
1103 251, 252 Introduction to German Literature I, II	3 each
5 additional courses in German (1103) beyond intermediate level	15

Second Teaching Field in Russian*

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

1106 101 and 112 Beginning Russian I, II	6
1106 121 and 132 Intermediate Russian I, II	6
1106 141 and 152 Advanced Russian I, II	6
4903 293 Russian Culture and Civilization	3
4903 294 Russian Prose and Drama	3
Courses from related fields (by advisement)	6

*Under certain circumstances and with permission of the department chairperson, other selected courses may be counted.

Courses of Instruction

O 1103 101
BEGINNING GERMAN I 3.0
For students with no previous instruction in German. Emphasis on speaking, with practice in reading and writing German. Laboratory work.

O 1103 112
BEGINNING GERMAN II 3.0
Emphasis on speaking, with practice in reading and writing simple German. Laboratory work.
Prerequisite: O 1103 101 or equivalent.

O 1103 121
INTERMEDIATE GERMAN I 3.0
Continuation of German 101 and 112. Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work.
Prerequisite: O 1103 112 or equivalent.

O 1103 132
INTERMEDIATE GERMAN II 3.0
Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work.
Prerequisite: O 1103 121 or equivalent.

O 1103 141
REVIEW OF FUNDAMENTAL GRAMMAR 3.0
Oral and written practice for better control of language structure. Required for freshman majors, who are given admission preference.
Prerequisites: O 1103 132, 134 or equivalent.

O 1103 142
PRACTICE IN WRITTEN GERMAN 3.0
Increasingly difficult written assignments to develop command of idiomatic German. Strongly recommended for majors desiring teacher certification.
Prerequisite: O 1103 141.

O 1103 151
ADVANCED GERMAN I 3.0
Continuation of Intermediate German on a more advanced level. Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.
Prerequisites: O 1103 132, 134 or equivalent.

O 1103 152
ADVANCED GERMAN II 3.0
Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors, who are given admission preference.
Prerequisite: O 1103 151.

O 1103 209
PHONETICS AND PHONOLOGY 3.0
Application of phonetic science to the acquiring and teaching of good pronunciation; the international phonetic alphabet; problems of articulation; rhythm, accentuation and intonation. Strongly recommended for majors desiring teacher certification.

O 1103 251, 252
INTRODUCTION TO GERMAN LITERATURE I, II 3.0 each
Standard works of German literature from the classical period to the present; methods of literary interpretation; developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given preference.
Prerequisite for O 1103 252: 0 1103 251.

O 1103 309
PRACTICE IN SPOKEN GERMAN 3.0
Intensive conversation practice to improve fluency and increase active vocabulary.

O 1103 310
ADVANCED COMPOSITION 3.0
Intensive written exercises to improve command of the German language; some oral work.

O 1103 315
TRANSLATION I 3.0
Intensive practice in the skills of translating professional texts from German into English and from English into German.
Prerequisite: Instructor's permission.

O 1103 316
TRANSLATION II 3.0
Continuation of 315 with more intensive exposure to the skills of translation. Recommended for qualified students interested in a possible future career as bilingual secretary, translator of commercial texts, etc.
Prerequisite: O 1103 315, instructor's permission.

O 1103 317
TRANSLATION III 3.0
Continuation of 316 with conclusion of training in international business translation. Development of increasingly sophisticated skills required to translate professionally in a variety of fields. Emphasis on translation from German into English.
Prerequisite: O 1103 316, instructor's permission.

O 1103 318
TRANSLATION IV 3.0
Continuation of 317 with increasingly technical and specialized texts translated into the student's native language. Two individual projects in two areas of special interest.
Prerequisite: O 1103 317, instructor's permission.

O 1103 320
DEVELOPMENT OF THE GERMAN LANGUAGE 3.0
Background, growth, and structure of the German language from the Indo-Enropean and Germanic beginnings to the language as spoken today; historical explanation of modern German grammar.

O 1103 341
GERMAN LITERATURE FROM THE ORIGINS TO THE REFORMATION 3.0
Works representative of the Old High German, Middle High German, and late medieval periods read in modern German version. The most important genres and trends, ending with excerpts from Luther's works.

O 1103 342
GERMAN LITERATURE FROM THE 16TH TO THE 18TH CENTURIES 3.0
Representative works illustrating the trends preceding the classical period.

O 1103 351
GERMAN CIVILIZATION I 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.

O 1103 352
GERMAN CIVILIZATION II 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference.
Prerequisite: 0 1103 351.

O 1103 360
MODERN GERMAN PROSE FICTION 3.0
Reading and discussion of great German novels and novellas of the 19th and 20th centuries; the personal and stylistic characteristics of the authors; the literary periods they represent.

O 1103 364
GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES 3.0
Reading and discussion of outstanding plays and dramatists from Goethe's death to the present; interpretation and theories of dramas.

O 1103 375
STUDY ABROAD Credit by evaluation
An opportunity to gain first-hand knowledge of the historical, social, and economic and cultural life of German-speaking Europe. Semester hours will be granted by evaluation.

O 1103 380
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.

O 1103 381
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability, and responsibility necessary to pursue a special scholarly interest.

O 1103 385
COOPERATIVE EDUCATION FOR GERMAN MAJORS 4.0
This course provides opportunity for the student to extend the academic learning experience beyond the campus by placing him/her in meaningful learning situations with throughly screened and approved employers. This supervised work experience, connected with an academic project in a professional field related to the major, will enhance the student's professional qualifications.
Prerequisites: Minimum junior status; minimum 3.00 cumulative grade point average.

O 1103 410
GERMAN GRAMMAR: APPLED LINGUISTICS 3.0
A review of the most important structural features of German; areas of interference with English structure which present the greatest difficulties to the American student of German. Required for majors desiring teacher certification.

O 1103 419
TEACHING GERMAN IN SECONDARY SCHOOLS 3.0
The aims, objectives and methods used in teaching German in secondary schools; textbooks, supplementary teaching materials, language laboratory, tests, etc. Required for majors desiring teacher certification.

O 1103 441
THE AGE OF GOETHE 3.0
The life and works of Goethe; his continuing importance; reading from all important genres in which Goethe wrote.

O 1103 442
THE AGE OF SCHILLER 3.0
The life and works of Schiller; his continuing importance; reading from the dramas, essays and poems.

O 1103 460
SENIOR SEMINAR 3.0
Study in depth of significant figures not adequately treated elsewhere in the departmental offerings (Holderlin, Kleist, etc.) or detailed study of special literary groups (German symbolist poets, etc.). Each student produces a research paper.

O 1103 480, 481
INDEPENDENT STUDY IN GERMAN (SENIOR LEVEL)3.0 each
Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.

O 1106 101, 112
BEGINNING RUSSIAN I, II 3.0 each
The fundamentals of grammar and pronunciation. Lab work.
Prerequisite for O 1106 112: O 1106 101 or equivalent.

O 1106 121, 132
INTERMEDIATE RUSSIAN I, II 3.0 each
Continuation of Russian 101 and 112. Open to students who have acquired an elementary knowledge of Russian elesewhere. Detailed review of Russian grammar and pronunciation, more advanced conversation. Lab work.
Prerequisite for O 1106 121: O 1106 101 or equivalent.
Prerequisite for O 1106 132: O 1106 121 or equivalent.

O 1106 141 152
ADVANCED RUSSIAN I, II 3.0 each
Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work.
Prerequisite for O 1106 141: O 1106 132 or equivalent.
Prerequisite for O 1106 152: O 1106 141 or equivalent.

O 1106 478
INDEPENDENT STUDY IN RUSSIAN 1.0-3.0
Directed individual study and research in Russian for special students.
Prerequisite: Permission of instructor and department chairperson.

K 4903 292
GERMAN LITERATURE 1890-PRESENT 3.0
The principle movements discernible in German literature since the end of the 19th century. Works representative of important authors and basic genres and trends. No knowledge of German is required. (Taught in English.)

K 4903 293
RUSSIAN CULTURE AND CIVILIZATION 3.0
The history of Russian culture from the early stages of Slavic civilization to the modern Soviet period. Special emphasis is placed on the role of the arts, especially literature, as a reflection of philosophical, political, and cultural change. No knowledge of Russian is required. Meets the General Education Requirement.

K 4903 294
RUSSIAN PROSE AND DRAMA 3.0
Russian prose and drama from the 18th century to the present day. Representative works of Gogol, Turgenev, Dostoevski, Tolstoi and Gorki. No knowledge of Russian is required. (Taught in English.)

K 4903 295
GERMAN EXPRESSIONISM 3.0
Various aspects of German expressionism. Encompassing roughly the period between the two world wars; the political and social climate of the Weimar republic; literature, painting, sculpture, music and the film of that era; defining expressionism as a specific historical period as well as a perennial stylistic device. (Taught in English.)

Health Professions

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Harry H. Hoitsma

The health professions are growing. Whether already certified in an allied health specialty and seeking a chance to move into management, or looking for a career as a health educator, the department offers courses to prepare students for emerging opportunities in selected aspects of the health field.

The Bachelor of Science degree in health education includes preparation for community health positions and the necessary professional courses for a teaching certificate. The Bachelor of Science in Allied Health Services is designed for continuing the education of those already certified in one of the many allied health specializations, including nursing. Here the course work develops leadership skills in management and supervision both at Montclair State and other cooperating institutions depending on the individual need.

Health Education Major

Required Courses

		Semester Hours
0837 207	Safety, Accidents, and Emergency Care	3
0837 210	Consumer Health	3
0837 213	Perspectives on Drugs	3
0837 220	Mental Health	3
0837 240	Foundations of Environmental Health	3
0837 290	Human Sexuality	3
0837 307	The Study of Human Diseases	3
0837 315	Community Health	3
0837 330	Foundations of Health Education	3
1306 182	Nutrition	3
0401 254	Applied Microbiology	3
0837 404	Foundations of Measurement and Evaluation in Health Education	3
0837 411	School Health and Community Services	3

Teacher Certification
Health Education, grades K-12

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. In addition, the course 0837 401 The Teaching of Health must be satisfactorily completed.

Professional Sequence
Community Health Services Concentration

0837 245 Observation of Health Agencies 2
0837 350 Field Study in Health 6
0837 460 Systems of Health Services Delivery 3
Consult with academic advisor in selection of additional appropriate coursework.

Allied Health Services Major

Required Courses

		Semester Hours
0837 315	Community Health	3
0837 455	Core Concepts in the Delivery of Health Care	3
0837 460	Systems of Health Services Delivery	3
0506 311	Management Process and Organizational Behavior	4
0506 316	Human Resource Management	3
or		
0506 431	Middle and First Line Management	3
0502 201	Fundamentals of Accounting I	3
or		
0502 200	Accounting for Non Business Majors	3
1701 109	Statistics	3
0701 108	Computers and Programming	3
or		
0838 273	Introduction to Business Data Processing	3

Collateral Courses

2204 101 Principles of Economics: Macro 3
2204 102 Principles of Economics: Micro 3

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department 15

Electives (General)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Technical Speciality in Allied Health 24

Credits must be completed at or recognized by an academically accredited institution prior to transfer to Montclair State College.

Physical Education and Health
Dual Teacher Certification Requirement

The department offers a dual certification component in the Physical Education and Health program, provided in conjunction with the department of Physical Education, Recreation and Leisure Studies. Satisfactory completion of this dual certification program leads to eligibility for a single New Jersey certificate in Physical Education and Health. The Health Education component in this program is as follows:

Required Courses

		Semester Hours
0837 401	Teaching of Health	4
0837 290	Human Sexuality	3
0837 411	School Health and Community Services	3
0837 213	Perspectives on Drugs	
Select One		
0837 210	Consumer Health	3
0837 220	Mental Health	3
0837 240	Foundations of Environmental Health	3
Select Two		
0837 307	The Study of Human Diseases	3
0837 315	Community Health	3

or any other 0837 health profession course with advisement.

Physical Education requirements in this program are described in the Department of Physical Education, Recreation and Leisure Studies section of this catalog.

Courses of Instruction

5 0837 101
HEALTH FOR PERSONAL LIVING 3.0
Examines health as a variable entity having physiological, psychological and environmental dimensions. Employs an individualized, participatory approach that includes: assessing one's own health status and behavior, increasing competencies in making health related decisions, eliciting health promoting behaviors and interpreting existing or proposed social actions that ultimately affect personal, family and community health.

5 0837 105
MEDICAL TERMINOLOGY 3.0
A basic health course introducing elements of medical terminology describing body parts, systems, functions and medical procedures. Emphasis will be placed on development of medical vocabulary and communication skills. The course will provide learning episodes in formulating medical abbreviations and translating complex terminology into lay terms, that ultimately will be applicable to careers in medical writing, health care delivery and management.

5 0837 207
SAFETY, ACCIDENTS AND EMERGENCY CARE 3.0
Provides for study of major safety areas including transportation, public safety, industrial and home safety. Emergency health care, first aid treatment, and preventive measures are considered in the context of individual agency and institutional responsibilities.

5 0837 210
CONSUMER HEALTH 3.0
Interpretation of individual economic activity as it relates to health services and health products. Includes analysis of factors influencing consumer health attitudes and behavior.

5 0837 213
PERSPECTIVES ON DRUGS 3.0
Provides for the study of licit and illicit drug use in contemporary society from the perspective of selected biomedical and psychosocial disciplines. Examines the effects of drugs on the individual and society in the context of changing social conditions and technological developments. Analyzes complex nature of the drug problem, rehabilitative and preventive measures, and tentative solutions to this important aspect of human existence.

5 0837 220
MENTAL HEALTH 3.0
Provides for the study of human emotional adjustment throughout life from bio-medical and psychosocial perspectives. The factors that foster the development of emotional and mental well-being and the forces that contribute to the breakdown of human adjustment capabilities are identified and analyzed in light of research and clinical literature. Special attention is given to the strategies for the prevention of mental disorders and promotion of mental health.

5 0837 232
EMERGENCY HEALTH CARE 2.0
Considers the nature, causes and treatment of emergency health problems (accident, heart failure and heart attack, drug overdose, etc.), surveys community emergency services and provides insight into the scientific foundations of emergency health problems and treatment procedures.

5 0837 240
FOUNDATIONS OF ENVIRONMENTAL HEALTH 3.0
Prepares student to make informed decisions concerning the avoidance or elimination of disease-causing environmental exposures by providing an understanding of the scientific principles by which these exposures are identified, measured, and judged as to their acceptability.

5 0837 245
OBSERVATION OF HEALTH AGENCIES 2.0-3.0
An introductory field course designed to acquaint students with a wide range of school and community health programs and professional specializations in health. Provides a series of field visits and short-term placements under professional supervision. Open to all.
Prerequisites: 5 0837 101, instructor's written permission prior to registration.

5 0837 290
HUMAN SEXUALITY 3.0
Provides for the study of human sexuality from the various biological, physiological, sociological, and psychological perspectives, and examines individual and community attitudes concerning sexual behavior. Includes such contemporary issues as abortion, sterilization, homosexuality, artificial insemination and gender selection. Acquaints students with criteria of the social environment which provide their opportunities and constraints.

5 0837 307
THE STUDY OF HUMAN DISEASES 3.0
Provides a comprehensive study of diseases, their etiology, pathophysiology, diagnosis, prognosis, and treatment. Includes a review of causation theories and incidence patterns and focuses on the major degenerative, neoplastic, metabolic, immunologic, and infectious diseases. Attention is given to prevention and control measures with an emphasis on the role of selected health/medical resources in disease management.

5 0837 313
HEALTH CONSEQUENCES OF ALCOHOL USE AND ABUSE 3.0
The biological and pharmacological effects of alcohol use and abuse are examined. The health problems associated with abusive alcohol consumption are investigated and current research in this area is reviewed. Theories on the genesis of alcoholism relating to the individual, family and the community are studied.

5 0837 314
PUBLIC HEALTH ASPECTS OF ALCOHOL ABUSE 3.0
Examines the impact of alcohol abuse on public health. Society's attempts to diminish the impact are also explored. Includes study of effects of alcohol abuse on the family and workplace; prevention modalities and rehabilitation programs.

5 0837 315
COMMUNITY HEALTH 3.0
A basic course focusing on major health problems currently affecting the local, state, national and international scenes and includes consideration of political, social and economic factors. Special attention is directed to the public health organizations and agencies dealing with these health problems.
Prerequisite: Course in similar field.

5 0837 330
FOUNDATIONS OF HEALTH EDUCATION 3.0
Provides a comprehensive study of the scientific, social, behavioral, educational and legal foundations of health education. Traces the evolution and interprets the impact of related professions on school, community, and allied health education.

5 0837 347
HEALTH ISSUES FORUM 1.0-3.0
In-depth study of a single health issue of current public or professional concern including analysis of recent authoritative literature. Topic to be announced each semester. Course credit determined by nature and breadth of topics selected. With permission of the department, the course may be taken more than once.

5 0837 350
FIELD STUDY OF HEALTH 2.0-6.0
Selected experiences in community health work through arrangements with various kinds of health agencies. Major projects developed under supervision of a faculty member and qualified person in the health professions agency.
Prerequisites: Instructor's written permission prior to registration, course in similar field.

5 0837 401
THE TEACHING OF HEALTH 4.0
Traces historical development of health instruction, examines characteristics of health learners, and compares different types of health education programs. Provides for use of the computer in health education. Requires demonstration of health education planning, teaching and evaluation skills.

5 0837 404
FOUNDATIONS OF MEASUREMENT AND EVALUATION IN HEALTH EDUCATION 3.0
Provides for the study of the concept and the process of measurement and evaluation in health education. Specific topics related to test selection, test construction, test administration, and analysis of test results are discussed within a broad theoretical framework and reinforced with practical experiences.

5 0837 406
SCHOOL NURSING 3.0
Comprehensive principles and practices of school nursing for promoting and safeguarding the health of school populations. Required for school nursing endorsement with certificate in educational services for Registered Nurses.

5 0837 411
SCHOOL HEALTH AND COMMUNITY SERVICE 3.0
Provides for an in-depth understanding of the school health program and community services. Includes study of school and health services; healthful school environment; and health education and community health services.

5 0837 430
HEALTH COUNSELING 3.0
Course focuses on factors influencing health and illness behavior with implications for behavioral intervention in health care. Included are the intervention strategies of prevention, crisis intervention, postvention and compliance, and the intervention techniques of assessment, interviewing, counseling skills and small group dynamics.

5 0837 440
HEALTH ASPECTS OF AGING 3.0
This course focuses upon changes in aspects of health during the middle and later years of life. Included would be changes in anatomy and physiology, nutritional requirements, sensoria and those phenomena associated with aging and sexuality. Common causes of morbidity and mortality will be explored as they relate to the aged. Attention will be given to the psychosocial and economic needs of the elderly as well as those aspects of gerontology which deal with legislation and community organization.

5 0837 442
HEALTH PROMOTION IN THE WORKPLACE 3.0
Provides an overview of businesses' efforts to contain health care costs by establishing health promotion programs in the workplace. Criteria for prioritizing health promotion efforts are identified and applied to specific risk factor reduction efforts. The need to evaluate the cost-benefit of health promotion programs is emphasized and contemporary workplace health promotion issues are addressed.

5 0837 445
PERSPECTIVES ON DEATH 3.0
Exploration of the personal and social meanings of death. Formulation of realistic plans for living, through education about death.
Prerequisites: 5 0837 220 or instructor's permission.

5 0837 455
CORE CONCEPTS IN THE DELIVERY
OF HEALTH CARE 3.0
Interdisciplinary analysis of the patient care and supporting functions of health practitioners in the provision of health care, emphasizing underlying medical and human services principles and the roles of allied health personnel.
Prerequisites: Six months of occupational experience in an allied health speciality. Course in similar field.

5 0837 456
CLINICAL INTERNSHIP IN ALLIED HEALTH 1.0-4.0
Provides placements in a series of clinical settings to provide pre-service and in-service health occupations educators with opportunities to gain first-hand knowledge of the practice of a variety of health occupations. The nature and sequence of the experiences will be determined by individual needs and professional objectives.
Prerequisites: Professional licensure in an allied health speciality, 5 0837 441, course in similar field.

5 0837 457
PROFESSIONAL ISSUES IN ALLIED HEALTH 3.0
To provide a comprehensive overview of issues and problems in allied health practice and an understanding of the roles and responsibilities of allied health professionals. Attention will be paid to allied health careers. Topics will vary according to current trends and developments in allied health practices.

5 0837 460
SYSTEMS OF HEALTH SERVICES DELIVERY 3.0
The organization, administration and functions of health services in the United States and other major nations; the social and professional policies which determine their scope and nature. Principal methods currently employed in the U.S. for analysis and evaluation of health care systems. Offers opportunity to students to relate these general understandings to those segments of the health services system of particular professional interest to themselves.
Prerequisite: Course in similar field or instructor's permission.

5 0837 470
PATIENT EDUCATION 3.0
Provides for an in-depth study of comprehensive patient education. Topics include historical development, roles and responsibilities of patient education, program planning and development, and evaluation of patient education programs.
Prerequisite: Majors only or instructor's permission.

5 0837 490
ETHICS IN HEALTH CARE 3.0
Ethics is recognized as a general area of concern for health care practitioners and administrators. Issues in health care ethics will be discussed, with emphasis on their impact on delivery and administration of health care, and the personal ethical dilemmas they impose upon the health care professional. Issues included are general health care ethics, the right to health care, allocation of scarce resources, control of death, and human experimentation.

5 0837 491
HEALTH EDUCATION AND THE COMPUTER 3.0
Provides students with a basic understanding of and skills in computer functions related to school and community health education programs. Emphasizes the use and evaluation of software for the planning, implementation and evaluation of health education processes. Explores the use of video technologies and the potential impact of future developments in computer technology.

5 0837 0495
WRITING FOR PUBLICATION IN HEALTH 3.0
General aim is to analyze and develop skills in the process of writing for publication in the health field. Students analyze health writing, meet published writers, interview editors, utilize health research facilities and submit a manuscript for publication. Permission of instructor required.

History

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES
Chairperson: J. Kenneth Olenik

The study of history, in addition to being an important part of a broad liberal education, helps to prepare students for careers in teaching, law, government service, politics, journalism and creative writing, library science, business research, and positions with local, state or national archives, museums and historical societies or restorations agencies. The department offers specialized study mainly in American, European and Asian history. History majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools. A minor in history is also offered.

History Major

Required Courses

	Semester Hours
2205 200 The Study of History	3
Concentration in American, Asian, European or Latin American History	12-18
History electives in at least two areas other than the concentration. (African Civilization may be included)	12-18
Required Total	33

Teacher Certification
(Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. The course P 2201 401 Methods of Teaching Social Studies is the departmental requirement.

The social studies teacher is expected to have a broad understanding of the cultural and environmental factors which shape the individual and society. To meet the approved program for certification in social studies, course work is required in each of the following: anthropology, economics, geography, history, political science and sociology. A detailed description of the requirements is available in the office of the faculty program counselor in the School of Humanities and Social Sciences.

P 2202 223
SIMULATION GAMES AND GLOBAL PROBLEMS 3.0
An innovative course utilizing both simulation games and books to inquire into the substantive problems of peace and justice, the ways and means of designing future change, and the uses of simulation techniques as a teaching/learning device.

P 2201 401
METHODS OF TEACHING SOCIAL STUDIES 3.0
Presents recent trends in educational method in teaching the social studies. A program is presented containing the correlation of subject matter organization in socialized recitation, the teaching of current events, projects in citizenship, and the use of the project-problem as a method of teaching history and civics.

P 2205 100
THE STUDY OF HISTORY 3.0
The course is designed to introduce students to the nature of history as a scholarly intellectual pursuit. It is built around student activities dealing with the materials and typical research procedures used by historians and the challenges of criticizing and writing history at the beginner's level.

P 2205 103
FOUNDATIONS OF WESTERN CIVILIZATION 3.0
Origins and development of western civilization to about 1350. Egyptian, Judiac, Greek, Roman, Islamic and Medieval European contributions.

P 2205 105
EMERGENCE OF EUROPEAN CIVILIZATION, 1500-1914 3.0
The emergence of Europe as a distintive world civilization. The development of ideas, institutions and technologies from medieval times to World War I.

P 2205 106
CONTEMPORARY EUROPE, 1914 TO THE PRESENT 3.0
European society in transition since World War I. The role of two world wars in shaping contemporary times.

P 2205 108
INTRODUCTION TO AFRICAN CIVILIZATION 3.0
Pre-colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and cultural systems of the period.

P 2205 109
INTRODUCTION TO ISLAMIC CIVILIZATION 3.0
Examination of various institutions and value systems in Islam which characterize it as a major civilization. Important cultural developments as they are affected by the process of transition.

P 2205 110
INTRODUCTION TO AMERICAN CIVILIZATION 3.0
The mainstreams of development in American civilization. Political, intellectural, social, economic and cultural forces and achievements which have made the U.S. distinctive.

P 2205 111
CONTEMPORARY AMERICAN ISSUES IN HISTORICAL PERSPECTIVE 3.0
Examines contemporary issues in American society in historical perspective. Topics will vary from semester to semester in the light of changing problems confronting our society.

P 2205 114
EARLY LATIN AMERICAN CIVILIZATION 3.0
The components of Latin American civilization. Considered are the geographical background and developments of the Mayan, Incan, and Aztec civilizations, the Spanish and Portuguese backgrounds and the wars of independence.

P 2205 115
HISTORY OF PUERTO RICO 3.0
The history and culture of Puerto Rico and interaction with Spain, Latin America and the United States.

P 2205 116
MODERN LATIN-AMERICAN CIVILIZATION 3.0
Major themes in Latin American history during the 19th and 20th centuries, with emphasis on the struggle for freedom, equality, and economic independence.

P 2205 117
HISTORY OF THE UNITED STATES TO 1876 3.0
Issues and problems in the development of the American nation from discovery and exploration to the Civil War and reconstruction.

P 2205 118
HISTORY OF THE UNITED STATES SINCE 1876 3.0
Issues and problems in the development of the American nation from the Civil War to the present.

P 2205 131
INTRODUCTION TO INDIAN CIVILIZATION 3.0
The early history of India, 3000 B.C. to 1000 A.D. Principal religions, political and literary works, and their insights into Indian social values and institutions.

P 2205 132
INTRODUCTION TO CHINESE CIVILIZATION 3.0
The early history of China, 2000 B.C. to 1300 A.D. Principal social, political and meta-physical-philosophic works, corresponding values and institutions.

P 2205 133
MODERN CHINESE CIVILIZATION 3.0
Modern China and Japan, 1600 to the present. Changes in values and mutual influence of East and West, studied through literary, philosophical, anthropological, historical and artistic works.

P 2205 204
THE SECOND WORLD WAR 3.0
A study of origins and course of World War II in Europe, Asia and the Pacific.

P 2205 212
SOCIAL HISTORY OF THE UNITED STATES 3.0
Social and cultural aspects of American history. Population movements, rural and urban problems, status of women. Utopian ventures, mass media, recreation, human rights.

P 2205 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
Major trends in agriculture, commerce, finance, manufacturing, transportation and industrial relations from colonial beginnings to the present. Also listed under Economics as C 2204 213.

P 2205 215
WOMEN IN AMERICAN HISTORY 3.0
The changing role and status of women in American society from colonial times to the present.

P 2205 217
HISTORY OF BLACK AMERICANS 3.0
Role of Americans of African descent in the development of the United States. Contributions of black Americans from initial discovery and exploration to mid-20th century.

P 2205 218
POLITICAL HISTORY OF THE UNITED STATES 3.0
The historical development of American political institutions from the early 1700's to the present. Focus upon the evolution of constitutional and legal structures, the party system and pressure groups, the role of bureaucracies, and the impact of political leaders.

P 2205 219
SPORT IN HISTORY 3.0
This course takes a global approach to the history of sport, but focuses on the role of sport in American history. It examines sport in early world cultures, the development of sport as a mass spectator phenomenon in modern times, and the social significance of sport in the contemporary world.

P 2205 222
ECONOMIC HISTORY OF EUROPE
(ALSO LISTED AS C 2204 0222) 3.0
European economic development from the Middle Ages to the present. Emphasis on the first industrial revolution in Britian; comparing 19th century economic growth in Britian, France, Germany and Russia.

P 2205 223
COMMUNIST REVOLUTION IN CHINA 3.0
Ideological and historical significance studied against the background of domestic and international events, personalities and ideologies.

P 2205 231
NEW JERSEY PAST AND PRESENT 3.0
A survey of New Jersey history emphasizing (1) the state's political, economic, and social heritage and evolution, and (2) New Jersey's role in the development of the United States.

P 2205 281
GREEK CIVILIZATION 3.0
The political, social, economic, and cultural history of Greek world from the Bronze Age to the Roman conquest as seen through literary, documentary, and archaeological sources. Also listed under Classics as K 4903 281.

P 2205 282
ROMAN CIVILIZATION 3.0
The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary, and archaeological sources. Also listed under Classics as K 4903 282.

P 2205 308
HISTORY OF THE AMERICAN FAMILY 3.0
Studies the history of the American family as a dynamic social institution. The course will focus on the changing role of the family in America; the varieties of family structures in past times, and the significance of the family in American cultural and social history.

P 2205 309
FEMINIST IDEAS IN WESTERN THOUGHT 3.0
History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecroft, Fuller, Mill, and Freud will be considered against their socio-historic milieu.

P 2205 311
EARLY HISTORY OF NEW JERSEY 1702-89 3.0
From royal colony to the establishment of the federal government under the constitution, state and local events during the American Revolution.

P 2205 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800. The rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1809. Also listed under Environmental, Urban and Geographic Studies as N 2206 312.

P 2205 313
BIOGRAPHY IN AMERICAN HISTORY 3.0
The significant biographical materials available in the study of American history. The problems and uses of biography.

P 2205 315
WAR IN HISTORY 3.0
Examines selected wars in history of the world in an attempt to learn about causes and consequences of war. Considers attempts to prevent war in the past, and proposed methods for preventing war in the future.

P 2205 322
MEDIEVAL EUROPEAN CIVILIZATION 450-1350 3.0
Origins, development and significance of a civilization whose political social and cultural foundations had a spiritual basis and unity.

P 2205 323
HISTORY OF RUSSIA TO 1917 3.0
Factors shaping the Russian people: Byzantium and Greek Orthodox faith, tartar state organization, the Mir, westernization from Peter to Lenin, intellectual and radical movements.

P 2205 324
RUSSIA SINCE 1917 3.0
Political, social, economic and intellectual developments in the Soviet Union. The relationship of ideology and national goals.

P 2205 328
CONFLICT IN MODERN IRELAND 3.0
A history of Irish nationalism with emphasis on the period from 1782 to the present.

P 2205 329
HISTORY OF ENGLAND TO 1714 3.0
Emphasis on political and constitutional history, the formation of basic institutions of law and government and related economic, social and cultural factors.

P 2205 331
HISTORY OF ENGLAND 1714-1914 3.0
Political, social and economic history from the Hanoverian succession to the 20th century. Industrial Revolution, changing balance of the constitution, British imperialism, the Irish question.

P 2205 333
HISTORY OF BRAZIL 3.0
Traces the historical development from the pre-historical Indian cultures to the 1970's. Covers the social, cultural, political, economic and religious aspects of the largest Latin-American nation.

P 2205 339
SEMINAR IN LATIN AMERICAN HISTORY 3.0
Intensive study of specific periods and/or problems in Latin American history.
Prerequisite: 9 semester hours in Latin American history or instructor's permission.

P 2205 343
RESEARCH TECHNIQUES-AMERICAN HISTORY 3.0
This course is proposed for the three week January innovative instruction period as provided in the college calendar. The aim is to utilize this period for instruction of history majors in the techniques and problems of research with primary sources. Also, to familiarize them with the sources of American history in the depositories.
Prerequisite: Open only to history majors. Limited enrollment of 12 students.

P 2205 407
SENIOR SEMINAR IN HISTORY 3.0
Directed research and preparation of seminar reports and written paper on special topics in the main fields of history. Required for senior history majors.
Prerequisite: P 2205 200, 21 semester hours in history.

P 2205 406
HISTORY OF AMERICAN BUSINESS 3.0
Provides historical background toward understanding the present role business plays in American society. Examines the role of the entrepreneur and business manager in the evolution of American business.

P 2205 408
INDEPENDENT STUDY EUROPEAN HISTORY 3.0
To provide opportunity for students, mainly history majors, to do independent work in the field.

P 2205 409
INDEPENDENT STUDY NON-WESTERN HISTORY 3.0
To provide opportunity for students, mainly in history or transcultural studies, to do independent work in the field.

P 2205 410
INDEPENDENT STUDY IN AMERICAN HISTORY 3.0
To provide an opportunity to do independent work in the field.

P 2205 411
INTELLECTUAL HISTORY OF THE UNITED STATES 3.0
Development and contributions of the thought of individuals and groups, dominant and minority, and their effect on the American mind, traditions and practices.

P 2205 416
CHURCH AND STATE IN LATIN AMERICA 3.0
The Roman Catholic Church as the major spiritual institution as well as a cultural, moral, political and economic force in Latin America.

P 2205 419
AGE OF RENAISSANCE, 1350-1517 3.0
Political, economic, social and broad cultural developments in Italy and western Europe during 1350-1517.

P 2205 425
IDEAS IN EUROPEAN HISTORY: BURKE TO NIETZSCHE 3.0
Conservative, liberal, romantic, utilitarian and early existential streams of thought in 19th century Europe. Readings in Burke, Bentham, Mill, Hegel, Nietzsche and others, with attention to historical background.
Prerequisite: P 2205 106 or equivalent background.

P 2205 426
THE NAZI THIRD REICH 3.0
Major economic, social, political and intellectual developments in 20th century Germany, Demise of Weimar Republic and ascension of Nazi Third Reich.
Prerequisite: P 2205 106 or equivalent background.

P 2205 430
REVOLUTIONS IN LATIN AMERICAN HISTORY 3.0
Examines and compares the causes, course and consequences of three major social revolutions in Latin America: Mexico (1910), Boliva (1952), Cuba (1959).

P 2205 431
DEVELOPMENT OF INDIAN CHARACTER AND CULTURE 3.0
The historical conditioning of Indian behavior. Culture change in the perspective of colonialism and modernization. Contributions of religion to social and political values and modern literature.
Prerequisite: P 2205 131.

P 2205 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
The historical conditioning of Japanese behavior. Cultural change in the prespective of traditional periodization of Japanese history. Contributions of religion and philosophy to defining social values. Also listed under Anthropology as J 2202 432.

P 2205 433
AMERICAN COLONIAL HISTORY 1607-1763 3.0
Developments within the English colonies, interactions between England and the colonists, growth of a distinctive American society.

P 2205 434
AMERICAN REVOLUTION AND EARLY REPUBLIC 1763-1828 3.0
Analysis of events leading to the war for independence. Political, economic and foreign problems of the new nation and growth of nationalism.

P 2205 435
THE UNION IN CRISIS 1820-1877 3.0
Significant events and developments of the period, Jacksonian Democracy, westward expansion and sectionalism, the Civil War and reconstruction.

P 2205 436
AMERICA IN THE GILDED AGE 3.0
The forces which contributed to the development of modern, industrialized America. American society and its reaction to changes of the period.

P 2205 437
AMERICAN SOCIETY IN 20TH CENTURY 3.0
The continuing reactions to the problems of an industrialized America. The New Deal and recent supreme court decisions.

P 2205 438
AMERICA IN THE SIXTIES: THE CRISIS OF CONSENSUS LIBERALISM 3.0
Analyzes the crisis of American liberalism as that ideology was beset by the consequences of postwar affluence and the growing radicalism during the Kennedy-Johnson administration; and the backlash that developed into the Nixon "New Majority."

P 205 443
INTERNSHIP IN HISTORY 3.0
Opportunity for the advanced student to acquire practical experience working directly with primary sources of history in state and local depositories of historical materials.
Prerequisites: 21 semester hours prior course work in history and permission of program coordinator.

P 205 460
INDEPENDENT TRANSCULTURAL STUDY 3.0
No formal class meetings, this study program includes directed reading and preparation of written papers on transcultural subjects not offered in the regular curriculum and advanced independent study of subjects with which students have had course experience. Students seeking admission must secure approval of at least two professors representing different fields in the transcultural program.
Prerequisites: 21 semester hours of credit in Transcultural Studies.

P 2205 461
CULTURAL HISTORY OF PRIMITIVE SOCIETIES 3.0
Interdisciplinary approach to the aims, methods and techniques of ethnohistorical research. Sources of data include both documentary and non-documentary evidence in reconstructing the culture history of pre-literate or semi-literate societies. Also listed under Anthropology as J 2202 461.
Prerequisite: J 2202 100 or P 2205 200.

Home Economics

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Karen Todd

Home Economics is concerned with the study of individuals and families, their environments, needs, problems and futures. The department offers six specializations which synthesize, interrelate, and integrate knowledge from other disciplines toward understanding and finding solutions to concerns of individuals and families.

A Bachelor of Science degree is offered in Foods and Nutrition and Foodservice Management; the Bachelor of Arts degree is offered in Consumer Affairs, Family and Child Studies, Fashion Studies, and Home Economics Education. Students may prepare to teach, work with businesses, agencies, government programs, other institutions and/or pursue graduate study. Courses are open as electives for those majoring in other fields of study.

Montclair State College's Home Economics unit is accredited by the Council for Professional Development of the American Home Economics Association.

Home Economics Major

Required Courses (All Concentrations)

		Semester Hours
1301 100	Professional Orientation	2
1301 304	Introduction to Research	3
1301 400	Senior Seminar	1
1304 270	Individual Management: Theories and Strategies	3
1305 140	Family in Society	3

Concentration Programs Within the Major

Consumer Affairs

Required Courses

		Semester Hours
1301 409	Internship in Home Economics	8-12
1304 335	Consumers in the Market	3
1304 435	Consumer Action	3
1304 470	Family Management	3
1305 445	The Inner City Family	3

12 semester hours in one of these areas: Consumer Services; or Food, Nutrition, Foodservice Management; or Housing, Interior Design, Household Equipment 12

Collateral Courses

0509 340	Introduction to Marketing	3
1506 234	Fundamentals of Public Speaking	3
1509 102	Ethics	3
2001 101	General Psychology I	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3
	Political Science Course	3

Electives (General)

Select 20 semester hours from the appropriate list to be obtained from the department 20

Family and Child Studies

Required courses for Applied Family/Child Studies and Nursery/Kindergarten Teacher Programs

		Semester Hours
1301 141	Interpersonal Relations	3
1301 448	Family Counseling	3
1304 231	The Family in the Economic System	3
1305 214	Child Development I	3
1305 215	Infant Development	3
1305 314	Child Development II or	
1305 416	Creative Experiences I: Expressive Media	3
1305 315	Field Experiences in Family and Child Services	3
1305 320	Parenting Skills and Resources or	
1305 418	Strategies for Working with Parents	3
1305 342	Family Sociology or	
2208 204	Sociology of the Family	3
1305 445	The Inner City Family	3
1306 182	Nutrition	3

I. Applied Family/Child Studies Professional Sequence

Required Courses

1301 205	Women in Contemporary Society	3
1301 344	Challenge of Aging	3
1301 409	Internship in Home Economics or its equivalent from a minor	8

Strongly Recommended Courses

0837 290	Human Sexuality	3
1509 102	Ethics	3

Electives

Select from requirements for a minor or from the list of recommended courses to be obtained from the department 11

II. Nursery/Kindergarten Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. 0830 400 Foundations of Reading Instruction substitutes for 0830 407. Reading I: Theory and Process. In addition, the following courses must be taken:

1305 319	Language and Literature for Young Children	3
1305 417	Creative Experiences II: Cognitive Development	3
1305 420	Program Planning in Early Childhood Education	3
2001 201	Child Psychology	3

Fashion Studies

Required Courses

		Semester Hours
1301 409	Internship in Home Economics	8
1302 265	Interior Design	3
1303 122	Clothing and Culture	3
1303 220	Textile and Apparel Industry	3
1303 298	Textiles I: Introduction	3
1303 320	Historical Analysis of Fashion	3
1303 325	The Marketing of Fashion	3
1304 435	Consumer Action	3

Collateral Courses

0506 311	Management Process & Organizational Behavior	4
0509 340	Introduction to Marketing	3
1001 101	Design Foundations of Visual Organization I	3
1003 105	Art and Civilization I	3
1905 100	Introductory Chemistry	3
2001 102	General Psychology I	3
2202 100	Cultural Anthropology	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3
Studio Art course		3

General Education

French, Spanish or Italian to fulfill foreign language requirement 6

Electives

Select 16 semester hours from the appropriate list to be obtained from the departmemt 16

Foods and Nutrition

Required Courses for all Programs

		Semester Hours
1306 150	Principles of Food Preparation	3
1306 153	Food and People	3
1306 182	Nutrition	3
1306 255	Meal Management	3
1306 282	Community Nutrition	3
1306 357	Experimental Foods	3
0401 254	Applied Microbiology	3
2204 101	Principles of Economics: Macro or	
2204 102	Principles of Economics: Micro	3

I. Foods and Nutrition—General

0893 302	Nutrition Education Techniques	3
1304 435	Consumer Action	3
0701 108	Computers and Programming	3
1507 315	Magazine Journalism	3
1905 109	College Chemistry Laboratory I	1
1905 111	Elements of Chemistry I	3
1905 130	Fundamentals of Organic Chemistry	4

Choose 6 credits from the following 6

1301 408	Workshop in Home Economics: Sensory Evaluation
1306 382	Advanced Nutrition
1306 456	Research in Foods
1306 482	Nutrition Counseling
1307 253	Quantity Food Purchasing and Production

Electives 33

II. Foods and Nutrition—Dietetics*

0893 302	Nutrition Education Techniques	3
1306 382	Advanced Nutrition	3
1306 488	Diet Therapy	4
1307 252	Quantity Food Purchasing and Production Laboratory	2
1307 253	Quantity Food Purchasing and Production	3
1307 254	Food Service Equipment and Facilities Design	3
1307 352	Organization and Management of Food Service Systems	3
0401 243	Human Anatomy and Physiology	4
0506 311	Management Process and Organizational Behavior	4
1905 109	College Chemistry Laboratory I	1
1905 130	Fundamentals of Organic Chemistry	4
1905 270	Biochemistry	5

Electives 5

* Careful advisement is recommended so that requirements of the American Dietetics Association might be met.

III. Foods and Nutrition—Food Technology

1301 408	Workshop in Home Economics: Sensory Evaluation	3
1304 435	Consumer Action	3
1305 456	Research in Foods	3
1307 254	Food Service Equipment Facilities Design	3
0701 108	Computers and Programming	3
1701 115	Precalculus Mathematics	3
1701 122	Calculus I	4
1902 191	General Physics I	4
1902 192	General Physics II	4
1905 120	General Chemistry I	4
1905 121	General Chemistry II	4
1905 230	Organic Chemistry I	3
1905 231	Organic Chemistry II	3
1905 232	Experimental Organic Chemistry I	2

Highly recommended courses for this area of study

1307 253	Quantity Food Purchasing and Production	3
0506 311	Management Process and Organizational Behavior	4
0509 340	Introduction to Marketing	3
0509 341	Consumer Behavior	3
1507 207	Technical Writing	3
1701 109	Statistics	3

Electives 14

American Dietetics Association

In addition to taking course requirements listed for the Home Economics major and the Food and Nutrition concentration, a student who wishes to fulfill the minimum requirements for professional training of the American Dietetics Association should contact the department for current requirements.

Foodservice Management

Required Courses

		Semester Hours
1301 409	Internship in Home Economics	8
1306 150	Principles of Food Preparation	3
1306 153	Food and People	3
1306 182	Nutrition	3
1307 252	Quantity Food Purchasing and Production Laboratory	2
1307 253	Quantity Food Purchasing and Production	3
1307 254	Foodservice Equipment and Facility Design	3
1307 352	Organization and Management of Foodservice Systems	3
1307 353	Specialized Food Production	3

Collateral Courses

0401 242	Human Biology	3
0401 254	Applied Microbiology	3
0501 261	Legal Environments of Business I	3
0502 200	Accounting for Non-Business Majors	3
0506 316	Human Resource Management OR	
2001 240	Industrial and Organizational Psychology	3
0506 311	Management Process & Organizational Behavior	4
0509 340	Introduction to Marketing	3
0701 108	Computers and Programming	3
1905 107	College Chemistry I	2
1905 109	College Chemistry Laboratory I	1
1905 130	Fundamentals of Organic Chemistry	4
2001 101	General Psychology I	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Electives

Select 9-10 semester hours from the appropriate list to be obtained from the department 9-10

Home Economics Education

Required Courses

		Semester Hours
0893 201	Introduction to Home Economics Education	3
1301 141	Interpersonal Relations	3
1302 160	Equipment in the Home	3
1302 260	Housing and Society	3
1303 120	Clothing Construction	3
1303 122	Clothing and Culture	3
1303 298	Textiles I: Introduction	3
1304 435	Consumer Action	3
1304 470	Family Management	3
1305 214	Child Development I	3
1306 150	Principles of Food Preparation	3
1306 182	Nutrition	3
1306 255	Meal Management	3
Home Economics Elective		3

Collateral Courses

2001 101	General Psychology I	3
2204 101	Principles of Economics: Macro	3
	Anthropology of Sociology	3

Home Economics Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. In addition, the course 0893 309 Teaching of Home Economics must be taken.

Courses of Instruction

6 0893 201
INTRODUCTION TO HOME ECONOMICS EDUCATION 3.0
Exploration of the roles of home economics educators; home economics programs; teaching environments; curriculum design and methodology. Field trips to a variety of programs followed by analysis.

6 0893 302
NUTRITION EDUCATION TECHNIQUES 3.0
Procedures and techniques for developing programs and teaching nutrition to a variety of target populations. Individual and group methods emphasize innovation.
Prerequisite: 6 1306 182.

6 0893 309
TEACHING OF HOME ECONOMICS 3.0
Curriculum development. Materials and teaching strategies appropriate to home economics. 1 0829 410 Intermediate Field Experience in Education must be taken concurrently. To be taken semester prior to student teaching.

6 1301 100
PROFESSIONAL ORIENTATION 2.0
Orientation to the philosophy of the profession. Field experience with home economists in a variety of settings to provide exposure to the breadth of professional opportunities.

6 1301 141
INTERPERSONAL RELATIONS 3.0
Relevant and up-to-date information about meaningful human relationships throughout the life cycle. Meets the General Education requirement.

6 1301 205
WOMEN IN CONTEMPORARY SOCIETY 3.0
Discussion of current concerns and role options available to today's women, and of those historical developments and social forces which have shaped the status of women in America. Meets the General Education requirement.

6 1301 304
INTRODUCTION TO RESEARCH 3.0
Provides awareness of the contributions of research to the advancement of human welfare. Developing skills for intelligent pursuit and consumption of research. Not open to freshmen.

6 1301 308
INDEPENDENT STUDY 1.0-3.0
Advanced areas of home economics not offered in the regular curriculum.
Prerequisite: Junior or senior standing.

6 1301 344
CHALLENGE OF AGING 3.0
The change over the adult life span as it affects family interaction and resources in various sub-cultures. Implications for social policy and institutions relative to an increasing aging population. Field participation with agencies and elders; minimum 6 hours contact, more encouraged.

6 1301 400
SENIOR SEMINAR 1.0
The role of professional home economics in meeting contemporary societal needs. Problem of entry into field. Major only.
Prerequisite: Senior standing.

6 1301 408
WORKSHOP IN HOME ECONOMICS 1.0-3.0
Opportunity to study selected current problems in the field of home economics.

6 1301 409
INTERSHIP IN HOME ECONOMICS 8.0-12.0
Opportunity to work as an intern with a professional home economist in business, a community agency or an organization.
Prerequisite: Senior standing, admission to program. Application available in Home Economics Department.

6 1301 448
FAMILY COUNSELING 3.0
Techniques and theories of collecting data and counseling families with such problems as money management, nutrition concerns, parent-child relationships and value conflicts.
Prerequisites: 30 semester hours in Home Economics, junior or senior standing.

6 1302 160
EQUIPMENT IN THE HOME 3.0
Principles and resources involved in the selection, use and care of equipment in the home.

6 1302 260
HOUSING AND SOCIETY 3.0
This survey course examines housing as a product and a process which affects and is affected by families and households throughout the life cycle. Housing viewed through an interdisciplinary perspective is seen as influenced by household preferences and societal factors. Meets the General Education requirement.

6 1302 265
INTERIOR DESIGN 3.0
Selection, organization and evaluation of furnishing for the residential environment. Principles and elements of design studied in relation to interior residential space.

6 1303 120
CLOTHING CONSTRUCTION 3.0
Theory and techniques for achieving well-fitted apparel, basic concepts, competencies and technologies using appropriate fabrics and commerical patterns.

6 1303 122
CLOTHING AND CULTURE:
A MULTIDISCIPLINARY STUDY 3.0
Analysis of dress in terms of cultural, social, psychological, historic and economic influences. Clothing choices related to individual concerns, including aesthetic, physical and ecological factors. Meets the General Education Requirement.

6 1303 220
TEXTILE AND APPAREL INDUSTRY 3.0
In-depth study of factors which spur progress, affect supply, demand, and ultimately the consumer. History, economic structure and patterns of production, distribution and marketing of textile and clothing industries.

6 1303 298
TEXTILES I: INTRODUCTION 3.0
Intensive study of fibers, yarn, fabric constructions, and finishes related to consumer concerns for use, durability, care, and cost. For students with a professional interest in textiles and clothing.

6 1303 320
HISTORICAL ANALYSIS OF COSTUME 3.0
The development of clothing; clothing usage in terms of social, economic and aesthetic backgrounds. Not open to freshmen.

6 1303 325
THE MARKETING OF FASHION 3.0
This course is an exploration of the fashion business with an emphasis on the marketing of apparel, accessories and home furnishings. Problems and trends at the wholesale and retail levels will be explored. For sophomores-seniors.

6 1303 398
TEXTILES II: PRODUCTION AND PERFORMANCE 3.0
Basic information is used in the study of fabric production. Development and implemenation of textile standards. Impact of socio-economic forces, trends in merchandising, and consumership are discussed. Field experience included.
Prerequisite: 1303 298, instructor's permission.

6 1303 426
APPAREL DESIGN: FLAT PATTERN 3.0
Flat pattern design in developing original designs for apparel. Basic pattern used to execute designs related to the use of fabric on a human form.
Prerequisite: 6 1303 120, or instructor's permission.

6 1304 231
THE FAMILY IN THE ECONOMIC SYSTEM 3.0
The family as an economic unit in society. Economic behavior of various sub-cultures, age groups and family patterns. Meets the General Education Requirement.

6 1304 270
INDIVIDUAL MANAGEMENT: THEORIES AND
STRATEGIES 3.0
Opportunity to investigate management theories and apply them to personal life. Influences on, and blocks to, personal management, problem solving, planning, and expediting. Meets the General Education Requirement.

6 1304 331
MONEY MANAGEMENT 3.0
The role and meaning of money in individual and family living. Income as a means of acquiring a style of life. The effective control of income in spending, saving, credit purchases and providing for future needs. Not open to freshmen.

6 1304 335
CONSUMERS IN THE MARKET 3.0
The consumer perspective of the marketplace. Emphasis on developing research skills and understanding laws, regulations and agencies that affect the consumer. Not open to freshmen.

6 1304 435
CONSUMER ACTION 3.0
The marketplace as a social, psychological and economic institution serving families. Emphasis on advertising, selling practices, pricing strategies, trends and current issues which affect the quality of goods and services.
Prerequisites: C 2204 101 or 102.

6 1304 470
FAMILY MANAGEMENT 3.0
Opportunity to analyze situations in which individuals and families use resources to maintain daily life and solve problems. Roles, goals, decision making, use of human and non-human resources and factors influencing household management.
Prerequisite: 6 1304 270.

6 1305 140
FAMILY IN SOCIETY 3.0
Provides basic insights and concepts from the social sciences to study the history and structure of the family as a basic but changing institution in modern America. Meets the General Education Requirement.

6 1305 214
CHILD DEVELOPMENT I 3.0
The pre-school child (2-5 years). The major challenges confronting the developing child as he/she masters the task of socialization. Supervised observation and participation with groups of preschool children for 2½ hours per week, each week of the semester. Field work required.
Prerequisite: T 2001 101.

6 1305 215
INFANT DEVELOPMENT 3.0
The infant as a developing individual within the family. Theory and research in the area of human infancy. Physical, cognitive and emotional growth from pre-natal through the first two years of life.

6 1305 248
FAMILY RELATIONS 3.0
The family life cycle. Courtship, adjustment in marriage, pregnancy, child rearing. Later stages of parenthood and old age.

6 1305 314
CHILD DEVELOPMENT II 3.0
The growth and development of the school-aged child (6-18). Examination of peers and family interactions, as well as the institutions of society as they influence the developing child/adolescent. Assigned activities with adolescents with 15 hours of field participation. Field work required.
Prerequisite: 6 1305 214.

6 1304 315
FIELD EXPERIENCES IN FAMILY AND CHILD SERVICES 3.0
Planned supervised experience with selected agencies offering services for families and children. 35 hours of field work required.
Prerequisites: Completion of 30 hours of Family and Child Studies program.

6 1305 319
LANGUAGE AND LITERATURE FOR YOUNG CHILDREN 3.0
The qualities of children's expression through language, books, stories and poems. Criteria for evaluating material for the pre-school program. Not open to freshmen.

6 1305 320
PARENTING SKILLS AND RESOURCES 3.0
Opportunity to develop effective parenting skills and knowledge of human development needed for application of these skills. Impact of parenting resources on both parents and non-parents. Local, state and national resources examined. Assigned activities with children. Meets the General Education Requirement.

6 1305 342
FAMILY SOCIOLOGY 3.0
Familiarizes students with data relating to the family as an institution, its development, dynamics and place in society. The impact of rapid social change on the American family. Not open to freshmen.



6 1305 414
ORGANIZATION AND MANAGEMENT OF CHILD CARE CENTERS 3.0
Basic principles of supervision and administration applied to developing a sound program in a modern pre-school program. The learning process applied to the professional development of staff. Organization and administration of individual classrooms and the total school program; and the relationship of the school to community services and agencies.
Prerequisite: 6 1305 214, junior/senior standing.

6 1305 416
CREATIVE EXPERIENCES I: EXPRESSIVE MEDIA 3.0
Curriculum experiences designed to nurture young children's self-expression and creativity in areas of art, music, dramatic play, woodworking and block play.
Prerequisites: 6 1305 214, majors only, junior/senior standing.

6 1305 417
CREATIVE EXPERIENCES II: COGNITIVE DEVELOPMENT 3.0
Provides an opportunity for students preparing to teach young children to have workshop experiences related to the physical and social world. Appropriate curriculum materials and activities in the areas of science, math and social studies will be discussed and presented.
Prerequisite: 6 1305 416, majors only.

6 1305 418
STRATEGIES FOR WORKING WITH PARENTS 3.0
Establishing a positive team approach between the parent and teacher. Parent-teacher interaction. How the teacher interprets parental anxieties, and conducts individual conferences and group meetings.
Prerequisite: 6 1305 214.

6 1305 420
PROGRAM PLANNING IN EARLY CHILDHOOD EDUCATION 3.0
Principles of curriculum development for programs for pre-school children. Taken the semester prior to student teaching and concurrently with 1 0829 410 Intermediate Field Experience in Education.

6 1305 445
THE INNER CITY FAMILY 3.0
Sub-cultures residing in large cities. The impact of urbanization, ethnicity, social and economic institutions. Problems which families encounter. Community contact is part of the course. Meets the General Education Requirement—Contemporary Issues. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: Junior/senior standing.

6 1306 150
PRINCIPLES OF FOOD PREPARATION 3.0
Principles of basic food science involved in preparation of standard food products. Food selection and purchasing.

6 1306 153
FOOD AND PEOPLE 3.0
Discussion of diverse factors which influence food selection in various cultures. World food patterns, nutritional significance of a changing food supply. Meets the General Education Requirement.

6 1306 182
NUTRITION 3.0
The nutrients in food, their functions in the human body, and diet requirements for people in various age groups. Meets the General Education Requirement.

6 1306 255
MEAL MANAGEMENT 3.0
Food preparation, nutrition and management in planning, preparing and serving family meals to utilize the resources available.
Prerequisites: 6 1306 150, 182.

6 1306 282
COMMUNITY NUTRITION 3.0
The application of basic nutritional knowledge to individuals and community agencies. Assessing and planning educational programs to correct nutrition problems. Field studies and group projects.
Prerequisite: 6 1306 182.

6 1306 357
EXPERIMENTAL FOODS 3.0
Scientific principles underlying food preparation. Laboratory experiments illustrate the effect of varying ingredients and preparation procedures on the quality of food products.
Prerequisites: X 1905 130, 6 1306 150.

6 1306 382
ADVANCED NUTRITION 3.0
The physiological and chemical bases for nutrient needs, mechanisms through which nutrients meet the biological needs of humans. Evaluation and interpretation of research findings.
Prerequisites: 6 1306 182, W 0401 243, X 1905 270.

6 1306 456
RESEARCH IN FOODS 3.0
Scientific method in the design and execution of experimental food studies and in the interpretation and evaluation of results. Independent laboratory research.
Prerequisite: 6 1306 357.

6 1306 482
NUTRITION COUNSELING 3.0
This course offers practical experience dealing with the principles of marketing, adult learning, helping skills, data analysis, record keeping, and evaluation as related to weight control and nutritional assessment. Twenty hours of clinical experience is required.
Prerequisite: 6 1306 282.

6 1306 488
DIET THERAPY 4.0
The application of basic nutritional principles and diet to the treatment of diseases and conditions other than normal.
Prerequisite: 6 1306 382.

6 1306 489
EXTERNSHIP IN FOOD AND NUTRITION 3.0
A supervised experience in selected quantity food services, agencies, clinics or organizations involved in foods and nutrition problems of the community.
Prerequisites: 6 1306 382, 6 1307 253, instructor's permission.

6 1307 252
QUANTITY FOOD PURCHASING AND PRODUCTION LABORATORY 2.0
Laboratory experiences to support basic concepts of quantity food purchasing and production. Laboratory assignments off campus in functioning foodservice facilities.
Prerequisites: 6 1306 150, 182.
Corequisite: 6 1307 253.

6 1307 253
QUANTITY FOOD PURCHASING AND PRODUCTION 3.0
Determining needs, purchasing, storing, preparing and serving food in large volume.
Prerequisites: 6 1306 150, 182.
Corequisite: 6 1307 252.

6 1307 254
FOODSERVICE EQUIPMENT AND FACILITIES DESIGN 3.0
Selection of equipment based on needs of the foodservice system. Purchasing procedures.
Prerequisite: 6 1307 253.

6 1307 352
ORGANIZATION AND MANAGEMENT OF FOODSERVICE SYSTEMS 3.0
Principles of management, organizational structure, policy and decision-making. The menu in management, budgeting and cost control, sanitation and safety, personnel policies and management.
Prerequisites: 6 1307 253, E 0506 311.

6 1307 353
SPECIALIZED FOOD PRODUCTION 3.0
Opportunity to study selected problems in food production in various types of food service operation. Menu planning and production for special events; terminology and techniques utilized in specialized areas of food production. Laboratory experience is included.
Prerequisites: 6 1307 253, 254, 352.

Industrial Studies

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Martin L. Greenwald

An interest in design; graphic communication, mechanical drawing or architectural drafting; graphic arts; wood, metal or plastics technology; electricity or electronics; energy and power, alternate energy technology, or automotive technology; or jewelry should lead the student to the department of Industrial Studies. The Bachelor of Science degree can be earned in order to prepare for a career in Industrial Supervision/Management or Teaching.

Industrial Education and Technology Major

Required Courses

		Semester Hours
0990 101	Introduction to Industry, Education and Technology	1
0839 101	Technology and Culture; Past, Present and Future	3
0990 210	Design Fundamentals and Problem Solving	3
0990 220	Technical Graphics	3
0990 230	Graphic Arts	3
0990 240	Foundations of Industry—Wood	3
0990 250	Industrial Plastics	3
0990 260	Metalworking Practices	3
0990 270	Electricity Fundamentals	3
0990 280	Energy and Power	3

Advanced Specialization
Select 22 semester hours of 300 and 400 level courses from within the department offerings (0990) in consultation with program advisor.

Concentration Program Within the Major

Industrial Studies

Required Courses

		Semester Hours
0990 461	Management and Production	3
0506 311	Management Process and Organizational Behavior	4
0509 340	Introduction to Marketing	3
0991 409	Cooperative Industrial Internship	8

Select 9 semester hours from the following:

2001 240	Industrial and Organizational Psychology	3
0506 316	Human Resource Management	3
0502 200	Accounting for Non-Business Majors	3
0506 431	Middle and First Line Management	3
0509 342	Sales Concepts and Practices	3
0701 108	Computers and Programming	3

(It is required that the student consult with the program advisor for course selection.)

Electives (General) 6

Teacher Education Professional Sequence

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Special Program Requirements

Vocational-Technical Teacher Education Program

This is a non-degree program that offers courses and guidance for students who want certification to teach vocational-technical subjects in secondary schools. Candidates must have a high school diploma or equivalency, experience in a trade, industrial occupation, or profession they would like to teach, and approved training in the field. General background courses, professional education and supervised in-service teaching are all included. For further information, call the department.

Courses of Instruction

7 0839 101
TECHNOLOGY AND CULTURE: PAST, PRESENT AND FUTURE 3.0
A chronological study of technology and its impact on world culture. Emphasis will be placed on the influence of the western hemisphere during the last 300 years and the world of the future.

7 0839 303
ORGANIZING/MANAGING THE INDUSTRIAL EDUCATION LABORATORY 3.0
A detailed exposition of the practices and procedures used to establish and operate a laboratory course in industrial education. Emphasis will be given to state regulations pertaining to shop operations. Students will be expected to develop sample organizational products that they can use when teaching.

7 0839 408
IN-SERVICE SUPERVISED TEACHING SEMINAR 8.0
For full-time regularly-employed teacher who has all degree requirements except student teaching. Prior registration required.

7 0990 101
INTRODUCTION TO INDUSTRY, EDUCATION AND TECHNOLOGY 1.0
A professional orientation and exposure to all professional aspects of industry, education and technology designed to give students insight into the breadth of opportunities within the field.

7 0990 208
SURVEY OF MODERN INDUSTRY 3.0
Visitation of representative industry to study and evaluate management, labor, materials, processes and products of industry.

7 0990 210
DESIGN FUNDAMENTALS AND PROBLEM SOLVING 3.0
Creativity, brainstorming, problem solving and analysis-consideration application to practical problems in designing with materials.

7 0990 220
TECHNICAL GRAPHICS 3.0
All aspects of industrial drafting practices are surveyed with particular emphasis on its role in the industrial and business world.

7 0990 230
GRAPHIC ARTS 3.0
Major printing processes, use of type, composition, proofing, platen press, screen process and basic lithography.

7 0990 240
FOUNDATIONS OF INDUSTRY — WOOD 3.0
An overview of the wood product industries with emphasis on the study of the lumber industry, standard hand tool and common machine operation, as well as basic finishing processes.

7 0990 241
CONSTRUCTION TECHNOLOGY 3.0
A general survey of the construction industry. Each of the systems required to build a structure is reviewed. Stress in placed on the practical applications of these systems.

7 0990 247
INTRODUCTION TO BUILDINGS AND SYSTEMS 3.0
An overall survey of building technology including their evolution, construction types, engineering, materials, systems, and pathology of deterioration.

7 0990 250
INDUSTRIAL PLASTICS 3.0
Industrial plastic industry, its operations and materials, principles, concepts, machine processing, material selection and equipment use and safety.

7 0990 260
INDUSTRIAL METAL WORKING PRACTICES 3.0
An introductory study of concepts and processes involving metallic materials supplemented by related laboratory experiences.

7 0990 270
ELECTRICITY FUNDAMENTALS 3.0
Basic concepts of electricity and their application in the world.

7 0990 280
ENERGY AND POWER 3.0
A study of all sources of energy and their various power conversion systems. Exploration through direct laboratory experience.

7 0990 284
ALTERNATE ENERGY 3.0
Unconventional energy conversion systems that do not rely on standard uses of common fossil fuels. Typical areas of study will include oil shale, tar sands, solar energy photovoltaic conversion systems, wind energy, nuclear fission and fusion, geothermal and hydroelectric energy conversion.
Prerequisite: 7 0990 280.

7 0990 307
TECHNICAL WRITING 3.0
Preparation of technical material for publication. Prior registration requested.
Prerequisite: M 1501 105 or course in similar field.

7 0990 311
GRAPHIC DESIGN IN PRINT MEDIA 3.0
All aspects of graphic arts design from inital concept to finished artwork. Included are studio methods of layout, composition, classification and selection of type.

7 0990 321
INDUSTRIAL DRAFTING 3.0
Concepts, principles, skills of contemporary industrial practices and processes.
Prerequisite: 7 0990 220.

7 0990 322
TECHNICAL ILLUSTRATION 3.0
Translation of orthographic drawings into three-dimensional pictorial drawings. Engineering and publication illustration.
Prerequisite: 7 0990 220.

7 0990 323
ARCHITECTURAL DRAFTING — RESIDENTIAL 3.0
The student will explore the functions of a residential architect. Emphasis will be placed on a working knowledge of building construction practices, residential planning and design and architectural drafting techniques.

7 0990 333
BLACK AND WHITE PHOTOGRAPHY 3.0
Photographic processes of continuous tone photography. Darkroom construction. Chemicals, equipment, film exposure, contact printing, enlarging, drying and mounting photographs.

7 0990 341
MACHINE WOODWORKING 3.0
Shaping wood materials by portable and machine operations; maintenance, jig and fixture design.
Prerequisite: 7 0990 240.

7 0990 342
CABINET CONSTRUCTION 3.0
All types of cabinet construction. Emphasis on industrial construction procedure in fabricating cabinets.
Prerequisite: 7 0990 341.

7 0990 343
HOME MAINTENANCE AND REPAIR 3.0
A survey of practical home maintenance and basic repair methods designed to meet the needs of the layman will be studied through laboratory experiences. Emphasis will be placed upon consumer knowledge, home maintenance and repair, and simple construction techniques.

7 0990 351
PLASTICS MOLDING AND PROCESSING 3.0
Manipulative processes. Injection, compression, transfer and rotational molding. Process procedure, cycle preparation and adjustment, material selection and use, machine set-up and function, sequential operation.
Prerequisite: 7 0990 250.

7 0990 352
PLASTICS FORMING AND PROCESSING 3.0
Manipulative processes. Extrusion, blow molding and thermoforming.
Prerequisite: 7 0990 250.

7 0990 361
MACHINE TOOL TECHNOLOGY 3.0
Machine metalwork layout, machining and control laboratory activities.
Prerequisite: 7 0990 260.

7 0990 363
METALS CASING TECHNOLOGY 3.0
Contemporary industrial metal casting techniques. Laboratory activities.
Prerequisite: 7 0990 260.

7 0990 371
ELECTRONIC FUNDAMENTALS 3.0
Circuit conditions. Analysis of electronic concepts, theoretically and experimentally.
Prerequisite: 7 0990 270.

7 0990 380
BASIC AUTOMOTIVE MECHANICS 3.0
Electronic diagnosis of auto engines, associated manipulative skills. Brakes, lights, front end and suspension systems.

7 0990 398
OPERATIONS MANAGEMENT 3.0
A fundamental course regarding production and service operations management. Included are process design, category planning and scheduling, inventory management, work force management, quality control, forecasting, materials handling and ordering, employee motivation and work methods.

7 0990 400
POWER TOOL MAINTENANCE 3.0
A presentation of accepted maintenance techniques for common industrial tools. Procedures applicable to both machine and portable tools will be dealt with. Troubleshooting, maintenance, overhaul and hands-on activity. Emphasis will be given to the development of preventive maintenance systems.
Prerequisite: Completion of required major courses or instructor's permission.

7 0990 406
INDEPENDENT STUDY IN HISTORY 1.0-3.0
Individual study problem with faculty guidance and sponsorship. Application required.
Prerequisite: Departmental permission.

7 0990 411
INDUSTRIAL DESIGN 3.0
Designer's approach to design products applicable to mass production techniques.
Prerequisite: 7 0990 210.

7 0990 415
WORKSHOP/SEMINAR IN INDUSTRIAL EDUCATION AND TECHNOLOGY 1.0-3.0
Opportunity is afforded students to study selected current issues, concerns, and/or problems in the various fields of industry, education and technology.

7 0990 422
ENGINEERING GRAPHICS 3.0
The fundamentals of descriptive geometry are explored in conjunction with orthographic projection as a system of identifying three-dimensional space date for the graphical solution of applied engineering problems.

7 0990 423
ARCHITECTURAL DESIGN 3.0
Basic aesthetic, functional and structural design, residential and light building structure. Environmental control, lighting, wiring, and waste utility systems.

7 0990 424
ENVIRONMENTAL ARCHITECTURE 3.0
This course is directed specifically toward all students with interest in energy conservation and the environment and for current and future homeowners. Emphasis will be placed on energy sources in housing, designing energy efficient homes, heating and cooling systems and retrofitting older homes.

7 0990 431
OFFSET LITHOGRAPHY 3.0
Photo-lithographic process. Copy preparation, camera techniques, line and halftone photography, densitometry, stripping, platemaking and presswork.
Prerequisite: 7 0990 230.

7 0990 432
ADVANCED OFFSET LITHOGRAPHY 3.0
Advanced technical information and skills. Photographic chemistry, advanced halftone techniques, posterization, duo-tones, trio-tones, screen calibration development, color negative development, enlarging and densimetric control.
Prerequisite: 7 0990 431.

7 0990 433
COLOR PHOTOGRAPHY 3.0
Basic techniques and processes of color photography. Analysis of light, color evaluation, color transparency development, color negative development, enlarging and densimetric control.
Prerequisite: 7 0990 333.

7 0990 434
COLOR SEPARATION 3.0
Color separation in graphic reproduction. Light, color films sensitivity, masking, color correcting, color proofing, stripping, exposure controls, densimetric measurements, screens, screen angles and press operation.
Prerequisite: 7 0990 433.

7 0990 442
RESIDENTIAL CONSTRUCTION 3.0
Residential construction materials and processes.
Prerequisite: 7 0990 342.



7 0990 451
PLASTICS PROCESSING TECHNOLOGY 3.0
Advanced technology in injection, compression, transfer and epoxy molding. Extrusion, lamination and casting. Skill development, mold and diemaking, operational procedure, processes and material application.
Prerequisites: 7 0990 250, 351 or 352.

7 0990 452
PLASTICS MOLD AND FORM DESIGN, DEVELOPMENT AND CONSTRUCTION 3.0
The design, development and proof of an appropriate mold or form.
Prerequisite: 7 0990 250.

7 0990 453
PLASTICS: A DIRECTED STUDY 3.0
An advanced course in the study of plastics centered on research and development with emphasis placed upon experimentation and exploration.
Prerequisite: 7 0990 250 or instructor's permission.

7 0990 461
MANAGEMENT AND PRODUCTION 3.0
Mass production techniques. Market analysis, manufacturing and production control.

7 0990 466
WELDING TECHNOLOGY 3.0
Working knowledge of arc and gas welding. Provides New Jersey welding certificate upon successful completion.
Prerequisite: Preregistration with instructor.

7 0990 471
ELECTRONIC CIRCUIT APPLICATION 3.0
The effect of characteristic change on basic electrical circuits.
Prerequisite: 7 0990 372.

7 0990 473
MICRO-COMPUTER TECHNOLOGY 3.0
Manufacturing, design and consumer product application of computer technology will be emphasized. Hands-on experience with micro computers, plotters, digitizers, printers and other peripherals will aid the student in developing an appreciation for the less publicized applications of the computer. Software, firmware and hardware will be illustrated and discussed, especially as related to interfacing. Numerical controlled machining and robotics will also be studied.

7 0990 482
FLUID POWER 3.0
Theory and application of fluid power. Principles and laws of pneumatic and hydraulic power with frequently used components and circuitry.
Prerequisite: 7 0990 280.

7 0991 405
COOPERATIVE INDUSTRIAL INTERNSHIP 4.0 or 8.0
The cooperative education experience integrates academic study with supervised, non-professional employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a faculty coordinator and the office of cooperative education, is responsible for completing the terms of a predetermined learning contract.

7 0998 401
PRINCIPLES AND PHILOSOPHY OF VOCATIONAL-TECHNICAL EDUCATION 3.0
This course presents a brief history of the social, economic, and technical forces which stimulated the development of Vocational-Technical Education. The philosophy upon which the Vocational-Technical Program is built will be extensively examined. The principles and practices of the areas and types of vocational-technical education that function are studied. Organization and function of the State and Federal Division of Vocational Education and the significant trends and developments are an important part of the course.

7 0998 404
INSTRUCTIONAL MATERIAL DEVELOPMENT IN VOCATIONAL-TECHNICAL EDUCATION 3.0
Designed to assist the vocational-technical teacher to develop teaching aids of functional value to their field; opportunity for the teacher to gain skill and proficiency in the use of conventional audio-visual teaching aids, and in the development of job, operation, information and assignment sheets.

7 0998 405
CURRICULUM CONSTRUCTION IN VOCATIONAL AND TECHNOLOGY EDUCATION 3.0
This course is concerned with the practical skills utilized in the design and construction of vocational and technology curricula. The course emphasizes the relationships between related and laboratory curriculum content. Students will prepare practical, useful materials applicable to current and future school, classroom, and laboratory situations.

7 0998 406
TEACHING VOCATIONAL AND TECHNOLOGY EDUCATION 3.0
Emphasis will be placed upon professional preparation for teaching vocational subjects and technology education. Areas of study will include planning a course of study, demonstration of technical materials and equipment, safety in the laboratory, record keeping, class management and use of instructional materials and evaluational techniques. Several microteaching experiences will be undertaken by the students.

7 0993 408
VOCATIONAL-TECHNICAL IN-SERVICE SUPERVISED TEACHINGS AND SEMINAR 8.0
A two-part course which covers an academic year. The first part involves the student in a biweekly seminar and on-the-job supervision by the seminar instructor. The second part provides for on-the-job supervision and individual conferences. Both parts of the course must be completed before credit is awarded.

7 0998 409
VOCATIONAL GUIDANCE 3.0
Designed to acquaint teachers in vocational-technical education with the guidance program and to assist them in the guidance functions of classroom and shop.

Linguistics

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Alice F. Freed

Human language permeates nearly every facet of our existence and is one of the most important of human activities. The courses in linguistics reflect this fact and explore the many aspects of language: its structure, its history, its relationship to society and to psychological processes, its role in shaping our attitudes, its use in literature, and many other topics.

The department offers general courses for non-majors and specialized courses for majors, as well as a minor program and a variety of courses for students in other fields. In addition, the department offers courses leading to certification in Teaching English as a Second Language (TESL).

Linguistics majors receive a Bachelor of Arts degree.

Linguistics Major

Required Courses

		Semester Hours
1505 210	Introduction to General Linguistics	3
1505 230	Phoenetics and Phonology	3
1505 300	Syntax and Semantics I	3
1505 301	Syntax and Semantics II	3
1505 245	Language and Culture	3
or		
1505 330	Language in Society	3
1505 370	Comparative and Historical Linguistics	3

Electives (Departmental)

Select 18 semester hours from the appropriate list to be obtained from the department 18

Linguistics Minor

Required Course

		Semester Hours
1505 210	Introduction to General Linguistics	3

Electives

Select 15 semester hours from the appropriate list available from the department 15

Second Teaching Field in Teaching English as a Second Language

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

Required Courses

1505 210	Introduction to General Linguistics	3
1505 220	Structure of American English	3
1505 330	Language in Society	3
1505 325	Applied Language	3
1505 245	Language and Culture	3
0821 445	Puerto Rican Children in Mainland Schools	3
	Bilingual/Bicultural Field Experience	3
1508 403	Methods and Materials of TESL	3
1508 430	Field Experience in TESL	3

Electives (Departmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Students specializing in TESL must give evidence of native or near-native competency in English, as determined by the Oral Language Proficiency Interview administered by the Linguistics department. Candidates for certification must also take a minimum of 3 semester hours of a foreign language.

Certification is also available for students who already hold a bachelor's degree.

Courses of Instruction

Q 1107 101
BEGINNING CHINESE I 3.0
The first semester of an introduction to the Chinese language, focusing mainly on speaking and comprehension with secondary emphasis on reading and writing.

Q 1107 112
BEGINNING CHINESE II 3.0
The second semester of an introduction to the Chinese language, focusing mainly on speaking and comprehension, with secondary emphasis on reading and writing.
Prerequisite: Q 1107 101.

Q 1107 121
INTERMEDIATE CHINESE I 3.0
This is the first semester of a second year course in the Chinese language (Mandarin). The course will continue to build the skills in spoken Chinese developed in beginning Chinese I and II. However, the focus of this course will be reading and writing. The reading and writing components will be gradually increased to at least fifty per cent of the course content.
Prerequisites: Q 1107 101 and Q 1107 112 or equivalent.

Q 1107 132
INTERMEDIATE CHINESE II 3.0
This course will complete the intermediate Chinese sequence. The increased emphasis on reading and writing, begun in intermediate Chinese I, will continue. Reading and writing skills, along with vocabulary building, will be the focus of the course, although speaking will continue to be important.
Prerequisites: Q 1107 101, 112 and 121 or equivalent.

Q 1505 203
ANTHROPOLOGICAL LINGUISTICS 3.0
Different linguistic systems will be analyzed through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems will be emphasized in individual student field experience and in readings and lectures. This course is cross-listed with Anthropology (J 2202 203).

Q 1505 210
INTRODUCTION TO GENERAL LINGUISTICS 3.0
The nature and structure of language; the basic techniques for analyzing linguistic structures; phonological, morphological, syntactic and semantic structure of languages; language and dialects; language change; the comparative method in linguistics; human and animal communication; first and second language learning.

Q 1505 220
STRUCTURE OF AMERICAN ENGLISH 3.0
The phonology, morphology, syntax of American English; geographical and social dialects; tradtional, structural and transformational approaches to grammar. Meets the General Education Requirement.

Q 1505 230
PHONETICS AND PHONOLOGY 3.0
How sounds are produced in various languages, their acoustic properties, classification and description. The sound systems of a variety of languages. Workbook problems based on many languages.

Q 1505 245
LANGUAGE AND CULTURE 3.0
Language in its cultural context. Relationship of linguistic to non-linguistic variables: ethnosemantics, componential analysis, glottochronology, linguistic relativity principle. Meets the General Education Requirement—Social Science, Topic Course.

Q 1505 250
LANGUAGE OF PROPAGANDA 3.0
This course is a multidisciplinary approach to the study of the use of language to manipulate and influence opinions via advertising, innuendo, jargon, emotive language, etc.

Q 1505 255
WOMEN AND LANGUAGE 3.0
A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data.

Q 1505 260
DIALECTOLOGY 3.0
Principles of dialect study; application to American dialects; the origin and development of American dialects in historical, literary, regional, social and urban perspectives.

Q 1505 270
HISTORY OF LINGUISTICS 3.0
Linguistics from the ancient Sanskrit grammarians to the present. Present-day 'schools': structuralism, glossematics, Prague school, London school, tagmemics, stratificational grammar, transformational grammar.

Q 1505 280
BILINGUALISM 3.0
Compound and coordinate bilingualism; attitudes, motivation, etc.; functions of languages in multilingual settings; problems of newly-independent, multilingual nations in establishing national and standardized languages; analysis of bilingual speech; problems of educating minority groups in this country whose native language is not English.

Q 1505 284
HISTORY OF THE ENGLISH LANGUAGE 3.0
English from its Indo-European origins up to and including the eighteenth century grammarians. The German strains; Old, Middle, and Modern English.

Q 1505 290
LANGUAGE OF THE LAW 3.0
The characteristic properties of legal English: its linguistic structures and its social and psychological functions. Practice in analyzing and rewriting legal texts into plain English.

Q 1505 300
SYNTAX AND SEMANTICS I 3.0
The first of a two-semester sequence dealing with the most important modern approaches to the description of sentence structure and meaning in language. Emphasis in this first course will be on structural grammar and the early development of transformational-generative grammar. Data will be taken from a number of different languages.
Prerequisites: Q 1505 210 and instructor's permission. Required of Majors.

Q 1505 301
SYNTAX AND SEMANTICS II 3.0
The second course of a two-semester sequence dealing with the most important modern approaches to the description of sentence structure and meaning in language. Emphasis in this course will be on the later development of transformational grammar and its offshoots and on theories of meaning. Data will be taken from a number of different languages.
Prerequisites: Q 1505 300 and instructor's permission. Required of Majors.

Q 1505 325
APPLIED LINGUISTICS 3.0
Comparison of first and second language acquisition; bilingualism; dialectology; contrastive analysis; interference and interlanguage errors; reading and writing; translation.

Q 1505 330
LANGUAGE IN SOCIETY 3.0
Correlations between language varieties, their functions in particular settings, and the characteristics of their speakers. Black English. The role of second languages within a society; Pidgins, Creoles, Lingua Francas, Diglossia, etc. Meets the General Education Requirement—Social Science, Topic Course.

Q 1505 370
COMPARATIVE AND HISTORICAL LINGUISTICS 3.0
Similarities and differences among languages and language families at one point in time and as these develop in time; reconstructing the common ancestor of related languages and determining general laws of linguistic change. Required of Majors.

Q 1505 384
THE GRAMMARS OF ENGLISH 3.0
A critical overview of traditional, structural, and transformational-generative approaches to the problems of analyzing the grammar of the English language; practical applications for teaching English and for understanding grammar principles as means of more effective writing and literary analysis. This course is cross-listed with English (M 1505 384).

Q 1505 430
FIELD METHODS 3.0
Collecting and analyzing linguistic data from an informant; human factors in field work; qualifications of the informant; elicitation techniques.

Q 1505 450
SELECTED TOPICS IN LINGUISTICS 3.0
Study of special problems and topics in linguistics. Topics announced each semester.
Prerequisite: Q 1505 210 or equivalent and permission of instructor.

Q 1505 451
SELECTED TOPICS IN LINGUISTICS 3.0
Study of special problems and topics in linguistics. Topics announced each semester.
Prerequisite: Q 1505 210 or equivalent and instructor's permission.

Q 1505 478, 479
INDEPENDENT STUDY 3.0 each
This course is designed; (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department; (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course; or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.
Prerequisite: Q 1505 210 and instructor's permission.

Q 1508 051
INTENSIVE ESL I 6.0
This course is the first in a sequence of four courses for students whose first language is not English. The course aims to develop all four language skills: listening, speaking, reading and writing, emphasizing listening comprehension and speaking. The class will meet twice a week for two and a half hours each session. Credits not applicable toward graduation.
Prerequisite: Placement examination.



Q 1508 152
INTENSIVE ESL II 6.0
The course is the second in a sequence of four courses for students whose first language is not English. The course aims to continue the development of all four skills: listening, speaking, reading, writing, with special emphasis on reading and vocabulary development. The class will meet twice a week for two and one half hours.
Prerequisite: Q 1508 051 or placement examination.

Q 1508 153
INTENSIVE ESL III 6.0
This is the third in a sequence of four courses for students whose first language is not English. The course is a continuation of ESL II with increased emphasis on reading and writing. The course meets twice a week for two and a half hours.
Prerequisite: Q 1508 152 or placement examination.

Q 1508 154
INTENSIVE ESL IV ADVANCED COMPOSITION 6.0
This is the fourth in a sequence of four courses for students whose first language is not English. The course continues working on speaking, listening and reading skills but primary emphasis is on formal writing. Students will write compositions, essays, etc., focusing on the techniques necessary for academic writing. The class will meet twice a week for two and a half hours.
Prerequisite: Q 1508 153 or placement examination.

Q 1508 310
ESL—ADVANCED ORAL SKILLS 3.0
The course is designed to improve the oral language skills of non-native English speakers whose background has emphasized the skills of reading and writing. The course is intended to help develop oral proficiency in students whose oral comprehension and ability to make themselves understood is weak. The course will concentrate on skill of speaking.
Prerequisite: Q 1508 153 or equivalent.

Q 1508 311
ESL—ADVANCED LISTENING COMPREHENSION 3.0
This course is designed to improve the comprehension of spoken English by the non-native speaker whose writing and speaking are acceptable but who has difficulty following classroom lectures and conversations among English speakers.
Prerequisite: Q 1508 153 or equivalent.

Q 1508 403
METHODS AND MATERIALS OF TESL 3.0
The theory and practice of ESL instruction covering the major methodologies, planning lessons, testing language skills, selecting and developing materials, and related topics.

Q 1508 430
FIELD EXPERIENCE IN TEACHING ENGLISH AS A SECOND LANGUAGE 3.0
Opportunity to teach English as a second language will be arranged for each student in the program.

T 2001 348
PSYCHOLINGUISTICS 3.0
The study of language through linguistic, behavioral and cognitive methods. Basic linguistic ideas used for the explication of problems in grammar, cognitive structure, meaning and speech production and comprehension.
Prerequisite: T 2001 203 or instructur's permission.

Management

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Joseph Greco

Students whose concentration is in management learn about the actual operation of business organization and how to be a business leader. Managers must develop many kinds of skills. For example, they should have an understanding of human behavior in organizations, the ways in which computers can aid in decision-making, the relationship of business firms to government and society, and how international business firms operate.

The concentration in management provides professional education in organization theory and behavior, the management of human resources, operations, and production and information systems. It also supplies a good background in systems design and analysis as well as in decision-making in an environment of risk and uncertainty.

The department offers a Bachelor of Science degree in business administration with a concentration in management.

Business Administration Major

Required Courses

		Semester Hours
0502 201	Fundamentals of Accounting I	3
0502 202	Fundamentals of Accounting II	3
0501 261	Legal Environment of Business I	3
0503 270	Statistics for Business	4
0506 311	Management Process and Organizational Behavior	4
0504 321	Fundamentals of Finance	3
0509 340	Introduction to Marketing	3
0503 372	Management Science	4
0506 439	Business Policy	3
0503 463	Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113	Mathematics for Business I	3
1701 114	Mathematics for Business II	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Concentration Within the Major

Management

Required Courses

		Semester Hours
0506 316	Human Resources Management	3

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Courses of Instruction

E 0506 273
INTRODUCTION TO BUSINESS DATA PROCESSING 3.0
Computers used in developing business information systems. Topics include; history of data processing and information systems, needs of high speed equipment, numbering systems, data representation, programming concept, and use of business application program. (Alternate: Y 0701 273).

E 0506 311
MANAGEMENT PROCESS AND
ORGANIZATIONAL BEHAVIOR 4.0
To provide undergraduate students a review of classical and modern approaches to the managerial process as it relates to the manager's functions of planning, organizing, staffing, leading, and controlling. These reviews will be tied to the open-system model and the contingency approach as an overall framework for understanding the management of organizations.
Prerequisites: J 2202 100, T 2001 101, U 2208 100, majors only.

E 0506 316
HUMAN RESOURCE MANAGEMENT 3.0
Motivating managerial and non-managerial employees. Effective use of human resources in the organization. The personnel function, techniques of job analysis, description and evaluation, and overall organizational development particularly with minority group members and female employees.
Prerequisite: E 0506 311, junior standing.

E 0506 317
MOTIVATION AND LEADERSHIP 3.0
In-depth analysis of the human element. Analytical models to assist in the solution of leadership problems in an organizational context. Techniques of analysis and the psychology of self-esteem. Motivational problems facing first-line, middle, and top level managers in professional and nonprofessional work activities. The development of skills for practical application. Case studies.
Prerequisite: E 0506 311.

E 0506 327
TRAINING, DEVELOPMENT, AND
CAREER PLANNING 3.0
Theory and design of training, development and career planning programs. Assessment of training needs, training and development methods and procedures for evaluating training are considered. Some emphasis is placed on the development of managerial skills through student workshops.
Prerequisite: E 0506 311.

E 0506 335
SMALL BUSINESS MANAGEMENT 3.0
The problems and opportunities of starting and operating a small business. Capital accumulation, adapting technologies to specialized needs, assessing local market opportunities, government aids, establishing working relationships with large organizations and problems of growth.
Prerequisite: D 0504 321, E 0506 311, F 0509 340.

E 0506 336
INTERNATIONAL BUSINESS MANAGEMENT 3.0
General theory on international trade. The mechanisms of international balance of payments, and the procedures involved in international trade practices. The theory of comparative advantage, tariff system, international trade policy and monetary systems, balance of payment adjustment, flows of capital, development of market abroad, financing of international trade and handling of export shipment.
Prerequisites: C 2204 102, E 0506 311.

E 0506 363
BUSINESS AND SOCIETY 3.0
Business as an institution in our pluralistic society. Its relationship with other societal elements such as government, academia, labor and the consumer. American business past, present and future. Strengths, weaknesses and overall contribution to society. Ecology, minority groups and the quantity and quality of economic growth.

E 0506 371
MANAGEMENT INFORMATION SYSTEMS 3.0
Total information systems from the perspective of organizations. Information from the management point of view. Its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision-making and policy setting. Work in field, majors only.
Prerequisites: A 0502 202, D 0503 270, E 0506 311, instructor's permission, majors only.

E 0506 392
BUSINESS INTERNSHIP 1.0
Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses in a seminar such topics as job analysis, description, study guides, training techniques and problems.
Prerequisite: Instructor's permission.

E 0506 414
MANAGEMENT THEORIES: BEHAVIORAL APPROACHES 3.0
Advanced analysis of the most recent developments in the behavioral sciences as a basis for practical applications in the management of organizations. Special emphasis on techniques drawn from several behavioral models including approaches such as transactional analysis and behavior modification.
Prerequisite: E 0506 311.

E 0506 417
COMPENSATION MANAGEMENT 3.0
Theory and practice in employee wage and salary administration in both business and non-business organization. Traditional job evaluation methods and survey techniques are presented with emphasis on both the economic and behavioral effects of compensation practices.
Prerequisites: E 0506 316, majors only.

E 0506 433
ENTREPRENEURSHIP AND INNOVATION 3.0
Attitudes and perspectives for effecting meaningful and profitable change. Concepts of creativity, optimum use of resources, and the impact of technological change. Anticipating needs and wants of all groups influenced by the enterprise. Examples of successful entrepreneurship, role-playing and situational exercises.
Prerequisite: E 0506 311.

E 0506 439
BUSINESS POLICY 3.0
Establishing and implementing corporate goals. The firm as a collection of internal and external objectives. Information from functional areas analyzed along the lines of departmental activities. Decision making under conditions of risk and uncertainty. Planning and strategy in a changing environment. Reconciling departmental goals and company objectives through the systems approach. The effects of corporate decisions on public policy. Case studies and simulation games.
Prerequisites: Senior standing; majors only.

E 0506 491
BUSINESS PROBLEMS 3.0
The problems approach to business ownership, finances, location and layouts, purchasing, personnel and managerial controls. Can be used as an independent study course for not more than two times.
Prerequisite: Permission of the department chairperson.

E 0506 492
SELECTED TOPICS IN MANAGEMENT 1.0-3.0
The content of this course varies with each offering. Its purpose is to provide for the comprehensive development and study of an advanced topic of current interest not covered in-depth in the regular curriculum. Examples of topics covered in the past include: labor relations; women in management; and data base management systems.
Prerequisites: Prior approval of departmental chairperson.

Marketing

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Ralph DiPietro

Marketing as a discipline involves itself with analyzing consumer and industrial needs in a constantly changing environment. Marketing managers then take this information and reflect it in an appropriate marketing strategy that is congruent with those needs.

The marketing concentration provides students with a knowledge of the theoretical and practical aspects of the subject. Courses in advertising, consumer behavior, sales promotion, and marketing research and strategies prepare students for entry level positions and for potential advancement in marketing and sales careers. Additional courses will expand student awareness of international opportunities, and a well chosen sequence of courses sharpens analytical, creative, and decision-making skills.

The department offers a Bachelor of Science degree in business administration with a marketing concentration.

Business Administration

Required Courses

		Semester Hours
0502 201	Fundamentals of Accounting I	3
0502 202	Fundamentals of Accounting II	3
0501 261	Legal Environment of Business I	3
0503 270	Statistics for Business	4
0506 311	Management Process and Organizational Behavior	4
0504 321	Fundamentals of Finance	3
0509 340	Introduction to Marketing	3
0503 372	Management Science	4
0506 439	Business Policy	3
0503 463	Administrative Research Methodology and Analysis	3

Collateral Courses

1701 113	Mathematics for Business I	3
1701 114	Mathematics for Business II	3
2204 101	Principles of Economics: Macro	3
2204 102	Principles of Economics: Micro	3

Concentration Within the Major

Marketing

Required Courses

0509 341 Consumer Behavior
or
0509 443 Industrial Marketing 3
0509 442 Marketing Research 3
0509 446 Marketing Strategy and Implementation 3

Electives (Departmental)

Select any advanced marketing course from the appropriate list obtained from the department 3

Courses of Instruction

F 0506 392
BUSINESS INTERNSHIP-MARKETING 1.0-3.0
Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses in a seminar such topics as job analysis, description, study guides, training techniques and problems.
Prerequisite: Permission of department chairperson.

F 0506 492
SELECTED TOPICS IN ADMINISTRATIVE SCIENCES 1.0-3.0
Professional inquiry into the study of a selected issue, problem or trend in accounting, finance, management and organizational behavior, marketing, quantitative analysis, and general business.
Prerequisites: Prior approval of departmental chairperson.

F 0509 340
INTRODUCTION TO MARKETING 3.0
The role of marketing. Significance of marketing decisions to overall performance. Behavioral aspects of marketing, the impact of consumer behavior in purchase decisions, special problems of industrial marketing, the consumer movement and formal and informal societal constraints on marketing practices.

F 0509 341
CONSUMER BEHAVIOR 3.0
Industrial and consumer buying behavior. The user of consumer products. Behavioral science findings, marketing research techniques and consumer attitudes. Socio-economic and demographic variables.
Prerequisite: F 0509 340.

F 0509 342
SALES CONCEPTS AND PRACTICES 3.0
An analysis of the complete personal selling function from the perspective of one organization selling to another. Topics dealing with both the actual mechanics of the selling process and the management of the process and its actors are included.
Prerequisite: F 0509 340.

F 0509 344
ADVERTISING THEORY AND TECHNIQUES 3.0
An examination of the theoretical basis for advertising with linkage to the behavior of consumers. Planning and managing advertising campaigns, actual techniques used to develop advertising, and the role of advertising agencies are also dealt with.
Prerequisite: F 0509 340.

F 0509 349
INTERNATIONAL MARKETING 3.0
The importance of international marketing for the U.S. Environmental conditions and controlling factors. Development of foreign markets and selection of appropriate organizational means. Introduction into the mechanics of import and export. Manufacture abroad. Multinational companies.
Prerequisite: F 0509 340.

F 0509 399
BUSINESS WORK EXPERIENCE II 4.0-8.0
Business Work Experience II integrates classroom study with supervised work experience and intensifies the experience gained through participation in introduction to business work experience. This course will develop, through practical experience, the student's experience in the major field of study by providing a bridge from the academic environment to the world of the entering professional.
Prerequisite: B 0845 230.

F 0509 442
MARKETING RESEARCH 3.0
A broad management perspective on market research methodology. A systems approach, collection and analysis of facts, opinions, forecasts, etc., for determining marketing strategies. Research techniques and designs, tabulation and report presentation.
Prerequisite: F 0509 340, D 0503 270.

F 0509 443
INDUSTRIAL MARKETING 3.0
A study of the various problems faced by organizations who market goods and services consumed by other organizations. A managerial focus based on an understanding of organizational buying activities is stressed.
Prerequisite: F 0509 340.

F 0509 446
MARKETING STRATEGY AND IMPLEMENTATION 3.0
Relationship of marketing to the activity of the firm from the theoretical and practical perspectives. The variables of marketing decision making. Sophisticated techniques for problem solving. Case studies help to develop an analytical posture in marketing planning.
Prerequisite: F 0509 442. To be taken in senior year.

F 0509 464
LEGAL PROBLEMS OF THE MARKETING PROCESS 3.0
The historic and social relationships of law and marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation of anti-competitive business behavior, (3) regulations protecting consumers and (4) regulations protecting the use of intellectual property. Legal problems of international marketing and distribution.
Prerequisites: A 0501 261, F 0509 340.

F 0509 490
MARKETING INTERNSHIP 3.0
An opportunity for students to assist in solving a particular marketing problem for a participating corporation. Examples include general market research, advertising effectiveness research, public relations and new product assessment.

F 0509 491
MARKETING CO-OP 1.0-8.0
An opportunity for the student to work in a marketing environment for a semester. Interested students should contact the department of cooperative education. Note: Credit may or may not be given in the marketing area depending on the nature of the job and academic experience. Credits would then be free electives.

F 0509 492
INDEPENDENT STUDY IN MARKETING 1.0-3.0
An opportunity for a student to study a topic not normally covered in existing course selections or to take a course normally given, but for some reason not available.

F 0509 493
SPECIAL TOPICS IN MARKETING 1.0-3.0
An examination of topics not covered in normal marketing course work. Course to be given on demand with topics varying according to student input. Course will normally be offered during an intersession.

F 0509 499
CURRENT TOPICS IN MARKETING 3.0
Honors seminar, current topics in marketing. Problems and opportunities in marketing management.
Prerequisites: F 0509 340, 442 (or concurrently). Instructor's permission.

Mathematics and Computer Science

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: Kenneth C. Wolff

Mathematics and computer science are essential areas of knowledge in the modern technological world. In order to equip students with proper skills, the department offers a major and a minor program in mathematics and a major and a minor program in computer science. In addition the department offers a concentration in applied mathematics. Both major programs lead to a Bachelor of Science degree. With the proper choice of elective courses, a student may prepare for graduate study or for work in a variety of fields such as computer science, statistics, actuarial science and management science. There are honors programs in mathematics and computer science for qualified students.

It is possible to pursue a dual major program, mathematics and computer science. This can be arranged with the advice of the chairperson. A student who is interested in advanced placement or who has questions about qualifications for placement in calculus should contact the chairperson for the proper information.

Mathematics Major

Required Courses

1701 122 Calculus I 4
1701 221 Calculus II 4
1701 222 Calculus III 4
1701 335 Elements of Linear Algebra 4
1701 340 Probability 3

Collateral Courses

1701 183 Foundations of Computer Science I 3
1902 191,192 General Physics I, II 8

Electives

Select 18 semester hours from the appropriate list to be obtained from the department 18

Mathematics Major

Students may earn a minor in the field of mathematics by completing an approved 18 semester hour program in mathematics. See the department for specific requirements.

Applied Mathematics Concentration

See the department for specific details about this program.

Teacher Certification

Students desiring teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. The specific mathematics courses needed for certification should be obtained from the department.

Second Teaching Field in Mathematics

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Those students majoring in another field who wish to teach mathematics as a second field must take an approved 32 semester hour program in mathematics, including one course in computer science, as well as their major field requirements. Specific requirements may be obtained from the department.

Computer Science Major

Required Courses

0701 183 Foundations of Computer Science I 3
0701 184 Foundations of Computer Science II 3
0701 280 Assembly Language and Machine Organization I 3
0701 281 Assembly Language and Machine Organization II 3
0701 285 Discrete Math Structures 3
0701 383 Data Structures 3

Collateral Courses

1701 122 Calculus I 4
1701 221 Calculus II 4
1701 335 Elements of Linear Algebra 4
1701 340 Probability 3
and
One of these five sequences
1. 1902 191, 192 General Physics I, II ..... 4 ea.
2. 1905 120, 121 General Chemistry I, II ..... 4 ea.
3. **Select two courses**
   0401 121 Plant Kingdon 4
   0401 130 Invertebtrate Zoology 4
   0401 131 Vertebrate Zoology 4
   0401 140 Biology of the Cell 4
   0401 212 Genetics, Individual and Society 3
4. 0502 201, 202 Fundamentals of Accounting I, II ..... 3 ea.
   0506 311 Management Process and Organizational Behavior 4
5. 2204 101, 102 Principles of Economics: Macro, Micro ..... 3 ea.
   0506 311 Management Process and Organizational Behavior ..... 4 ea.

***Note:** The department recommends that students consider taking a second and possibly third sequence in collateral courses, as well as advanced writing skills — technical and scientific. Independent study in advanced areas is available. See the department chairperson for information.*

Electives

Select 15 semester hours from the appropriate list to be obtained from the department 15

Computer Science Minor

Students may earn a minor in computer science by satisfactorily completing an 18 semester hour program which includes Y 0701, 183, 184, and 261. At least 9 semester hours must be taken at Montclair State College. At least 6 semester hours must be taken above the 280 level.

Courses of Instruction

Computer Science

Y 0701 107
COMPUTERS AND SOCIETY 2.0
The impact of the digital computer on modern society. The effect of information processing in the social and political spheres and the relation of computer information processing to human thought. Not for math/science majors.

Y 0701 108
COMPUTERS AND PROGRAMMING 3.0
Develop programming competence in a language such as BASIC or Pascal and an introduction to the use of a word processing package. Problems will be primarily of a non-mathematical nature. Discussion of the impact of the computer revolution on society. Not for mathematics or computer science majors.

Y 0701 109
INTRODUCTION TO COMPUTER APPLICATIONS 3.0
An introduction to the use of word processing, spread sheet and data base packages plus a discussion of the impact of computers on society. Not for mathematics major elective credit or computer science major elective credit.

Y 0701 183
FOUNDATIONS OF COMPUTER SCIENCE I 3.0
Basic theory of digital computers. Syntax and semantics of a programming language. Algorithms: logic, design, testing and documentation. Majors only.
Prerequisite: Y 1701 114 or 115.

Y 0701 184
FOUNDATIONS OF COMPUTER SCIENCE II 3.0
Continuation of Y 0701 183. Algorithm development involving user functions; subroutines, recursions, structures file manipulation.
Prerequisite: Y 0701 183.

Y 0701 261
COMPUTER APPLICATIONS I: DATA PROCESSING 3.0
Applications in accounts receivable, payroll and inventory. Language COBOL. Card, tape, and disc files.
Prerequisite: Y 0701 183.
Corequisite: Y 1701 221.

Y 0701 273
INTRODUCTION TO BUSINESS DATA PROCESSING 3.0
Emphasis is on the business application of a modern computer using COBOL. May not be taken for credit by students who have received credit for Y 0701 183 or equivalent. Not for math/science majors or students who have taken B 0838 273 or E 0506 273.

Y 0701 280
ASSEMBLY LANGUAGE AND
MACHINE ORGANIZATION I 3.0
Computer structures, the conventional machine level, introduction to assembler language.
Prerequisite: Y 0701 184.
Corequisite: Y 1701 221.

Y 0701 281
ASSEMBLY LANGUAGE AND MACHINE
ORGANIZATION II 3.0
Microprogramming level of a computer, the operating system level, assembler topics including subroutines, input/output macros, dumps and marco writing.
Prerequisite: Y 0701 280.
Corequsite: Y 0701 285.

Y 0701 285
DISCRETE MATHEMATICAL STRUCTURES 3.0
The structures includes sets, graphs, digraphs, trees, networks, lattices, matrices, semigroups, and groups. Many practical business and scientific problems can be posed and solved by the use of these structures.
Prerequisite: Y 0701 184.

Y 0701 286
INTRODUCTION TO NUMERICAL COMPUTING 3.0
Fundamentals of numerical computation, with emphasis on basic algorithms and their efficient implementation; appropriate treatment of theoretical bases. Topics include floating point arithmetic, round off error and error propagation, numerical solution of non-linear equations, interpolation and approximation, and numerical integration. The FORTRAN language will be taught and used in programming assignments.
Prerequisites: Y 0701 183, Y 1701 122 (corequisite).

Y 0701 381
COMPUTER APPLICATIONS II—FILE PROCESSING 3.0
Advanced techniques in data processing including modular programming, debugging language, table handling, subscription and indexing, variable length records and tables, declarations and linkages, report generation, tape and disc file processing. Searching, sorting, updating and retrieving from files. Sequential, indexed sequential and direct-access file organization. The programming language will be COBOL.
Prerequisite: Y 0701 261.

Y 0701 382
COMPUTER APPLICATIONS III—SYSTEMS ANALYSIS 3.0
A major project includes forms design, sequential files, files, merge, sort, and editing programs.
Prerequisite: Y 0701 261.

Y 0701 383
DATA STRUCTURES 3.0
Data structures including linear lists, strings, trees, chains, paging, data base design, storage systems, and structures.
Prerequisites: Y 0701 280, 285.

Y 0701 384
SYSTEMS SOFTWARE 3.0
Design and implementation of assemblers, linkage editors and loaders, libraries, macro processors, and text editors; their relationship to an operating system.
Prerequisite: Y 0701 280.

Y 0701 385
MICROCOMPUTERS 3.0
Introduction to chip technology, microprocessors, microcomputers, architecture, instruction sets and programming of microcomputers.
Prerequisite: Y 0701 280.

Y 0701 386
COMPUTER CIRCUITS AND INTERFACES 3.0
Basic digital and analog computer circuits and interface circuits. Computer-telecommunications interfaces.
Prerequisite: Y 0701 385.

Y 0701 387
PRINCIPLES OF DATA COMMUNICATIONS 3.0
Fundamentals of data communication topics. Analog digital, broadband-baseband, TDM-FDM, AM-FM techniques. Error codes and protocols.
Prerequisite: Y 0701 281.

Y 0701 462
LOCAL AREA NETWORKS (LAN's) 3.0
Overview, topology, taxanomy, transmission, technology media and control protocols of microcomputer LAN's.
Prerequisite: Y 0701 387.

Y 0701 481
OPERATING SYSTEMS 3.0
System architecture; DOS, OS systems; multi-programming; virtual storage.
Prerequisite: Y 0701 383.

Y 0701 483
COMPUTER APPLICATIONS IV—DATA BASES 3.0
A comprehensive collection of data base organizations and design tools. File organizations and evaluations, database structures, schemata and implementations. Database security, operations and management.
Prerequisite: Y 0701 381.

Y 0701 484
FUNDAMENTALS OF PROGRAMMING LANGUAGES 3.0
Syntax and semantics of programming languages. Principles of compilers and compiler constructions, including object code generation.
Prerequisite: Y 0701 383.

Y 0701 485
COMPILER CONSTRUCTION 3.0
Introduction to the concepts and techniques used in the description of programming languages and in the construction of compilers.
Prerequisite: Y 0701 383.

Y 0701 490
HONORS SEMINAR IN COMPUTER SCIENCE 3.0
Topics not usually covered within standard computer science courses. A written and an oral report are required.
Prerequisites: Y 0701 383, Y 1701 335 and instructor's permission.

Y 0701 495
TOPICS IN COMPUTER SCIENCE
FOR UNDERGRADUATES 1.0-3.0
Study of specialized topics in computer science.
Prerequisites: Y 1701 383, Y 1701 335 and instructor's permission.

Y 0701 497
UNDERGRADUATE RESEARCH IN
COMPUTER SCIENCE I 1.0-3.0
Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar of colloquim to be given by the student. Students must not accumulate more than 6 credits total in courses 0701, 497, 498; 1701, 497, 498.
Prerequisites: Y 1701 222, Y 0701 281, instructor's permission.

Y 0701 498
UNDERGRADUATES RESEARCH IN
COMPUTER SCIENCE II 1.0-3.0
Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquim to be given by the student. Students must not accumulate more than 6 credits total in courses 0701, 497, 498; 1701 497, 498.
Prerequisites: Y 1701 222, Y 0701 281, instructor's permission.

Y 0701 499
COOPERATIVE EDUCATION IN
COMPUTER SCIENCE 3.0-8.0
The study of theoretical ideas of computer science combined with their practical applications in a real life environment. The co-op experience is a semester working off campus under the guidance of a company supervisor and a faculty supervisor. Only 3 of the 8 credits may be used to fullfill the major requirement.
Prerequisites: Approval of faculty coordinator and co-op office.

Courses of Instruction

Mathematics

Y 1701 050
BASIC SKILLS MATH I-COMPUTATION AND
ELEMENTARY ALGEBRA 3.0
Fundamental operations on real numbers. Introduction to Algebra including linear equations and the development of algebraic manipulative skills. Estimation. Problem solving. Use of hand-held calculators. Credits not usable toward graudation.

Y 1701 051
BASIC SKILLS MATH II—ALGEBRA 3.0
Basic elementary algebra course. Includes fundamental algebraic processes, linear and quadratic equations, graphing and applications. Credits not usable toward graduation.

Y 1701 103
THE DEVELOPMENT OF MATHEMATICS 3.0
The growth and development of mathematics from ancient to modern times. Contributions of the great mathematicians. Not for math/science majors.

Y 1701 109
STATISTICS 3.0
Introduction to the use and misuse of statistics. Topics include analysis and presentation of data, variability and uncertainty in data, techniques of statistical inference and decision making. Not for mathematics majors.
Prerequisite: Y 1701 050 or satisfactory performance on New Jersey College Basic Skills Placement Test.

Y 1701 110
INTERMEDIATE ALGEBRA 3.0
Topics include sets, relations, functions, development of number systems and algebraic operations. Students who received high school credit for intermediate algebra may not receive degree credit for Y 1701 110. Not for math/science majors.
Prerequisite: Y 1701 051 or satisfactory performance on NJCBSPT.

Y 1701 113
MATHEMATICS FOR BUSINESS I: LINEAR ALGEBRA 3.0
Matrices, linear programming, probability and statistics.
Prerequisite: Y 1701 110 or satisfactory performance on NJCBSPT and 3 years of high school mathematics.

Y 1701 114
MATHEMATICS FOR BUSINESS II: CALCULUS 3.0
The general aim of this course is to introduce the students to the basic skills of differentiation, integration, maxima-minima problems and several of the other applications of calculus, including modeling, especially models in business and economics.
Prerequisite: Y 1701 113.



Y 1701 115
PRECALCULUS MATHEMATICS 3.0
Elements of sets, relations and functions, circular functions, plane analytic geometry including conic sections, logarithmic and exponential functions.
Prerequisite: Y 1701 110 or satisfactory performance on NJCBSPT and 3 years of high school mathematics.

Y 1701 116
CALCULUS A 4.0
Differentiation and integration of functions, including trigonometric functions. Applications to biology and geoscience. Not for math, chemistry or physics majors.
Prerequisite: Y 1701 115.

Y 1701 117
MATHEMATICS AND COMPUTER SCIENCE
FOR THE LIFE SCIENCES I 4.0
Descriptive statistics; counting techniques-permutations, combinations; sets; probability and probability distributions; tree diagrams; introduction to the BASIC language; simulation; role of computers in society. Applications include genetics, ecology, biochemistry, and population growth.
Prerequisite: Y 1701 051 or satisfactory performance on NJCBSPT.

Y 1701 118
MATHEMATICS AND COMPUTER SCIENCE
FOR THE LIFE SCIENCES II 3.0
Mathematical models; hypothesis testing; genetics models; diversity and populations; randomness; contingency tables; regression analysis; tests of biological models. Methods of course applied to real biological data throughout with microcomputers used as a tool.
Prerequisite: Y 1701 117.

Y 1701 122
CALCULUS I 4.0
Limits, continuity; derivatives and differentiation; applications of the derivative, maxima, minima, and extrema considerations; antiderivatives; Riemann Integral.
Prerequisite: Y 1701 115.

Y 1701 221
CALCULUS II 4.0
Riemann integral applications, transcendental functions, techniques of integration, improper integrals, L'Hospital's rule, infinite series.
Prerequisite: Y 1701 122.

Y 1701 222
CALCULUS III 4.0
Vector algebra; partial differentiation, and extrema considerations; polar, cylindrical, and spherical coordinates, multiple integration; introduction to line integrals.
Prerequisite: Y 1701 221.

Y 1701 242
BIOSTATISTICS 3.0
Applications of statistical methods to toxicology. Experimental design, descriptive statistics, random sampling, estimation, inference, hypothesis testing; one and two sample test; ANOVA, quality control, regression and bio-assay. Microcomputer and statistical packages. Not for math or computer science majors.
Prerequisite: Y 1701 122.

Y 1701 270
STATISTICS FOR BUSINESS 4.0
Modern statistical methods and decision making. Topics covered include descriptive statistics, probability theory, estimation, sampling, hypothesis testing, non-parametric methods, regression and time series analysis. Not for math/science majors or students who have taken D 0503 270.
Prerequisite: Y 1701 114.

Y 1701 335
ELEMENTS OF LINEAR ALGEBRA 4.0
Vectors, vector spaces in 2, 3, and N-dimensions, systems of linear equations, matrices, determinants, linear transformations, and applications.
Prerequisite: Y 1701 221 or equivalent.

Y 1701 340
PROBABILITY 3.0
Chance and variability, elements of combinatorics, Bayes' theorem, random variables, binomial. Poisson and normal distributions, applications to statistics.
Prerequisite: Y 1701 221.

Y 1701 350
COLLEGE GEOMETRY 3.0
Study of Euclidean and other geometrics from an axiomatic point of view.
Prerequisite: Y 1701 221.

Y 1701 398
VECTOR CALCULUS 3.0
Topics include the algebra of the differential and integral, gradients, divergence and curl of a vector field, and integral theorems together with applications drawn from the physical sciences.
Prerequisite: Y 1701 222.

Y 1701 420
DIFFERENTIAL EQUATIONS 3.0
Linear differential equations, exact and total differential equations, simultaneous equations, numerical approximations, series solutions.
Prerequisite: Y 1701 335.

Y 1701 423
INTRODUCTION TO COMPLEX VARIABLES 3.0
This course is a study of the arithmetic and algebra of complex numbers, and an introduction to the differentiation and integration of complex functions. Topics include rectangular and polar form of complex numbers, algebra of complex numbers, differentiation, Cauchy-Riemann equations, and contour integrals.
Prerequisite: Y 1701 222.

Y 1701 425
ADVANCED CALCULUS I 3.0
Properties of the real number system, limits, continuous functions, intermediate value theorem, derivative, mean value theorem, Riemann integral.
Prerequisite: Y 1701 222.

Y 1701 426
ADVANCED CALCULUS II 3.0
Functions of several variables, partial derivatives, Green's theorem, Stoke's theorem, divergence theorem, implicit function theorem, inverse function theorem, infinite series, uniform covergence.
Prerequisite: Y 1701 425.

Y 1701 428
INTRODUCTION TO TOPOLOGY 3.0
Topological spaces, metric spaces, continuity compactness, connectedness, and separability properties. Topological generalizations of basic continuity theorems of advanced calculus.
Prerequisite: Y 1701 425.

Y 1701 431
FOUNDATIONS OF MODERN ALGEBRA 3.0
Fundamental concepts of algebra including groups, rings, integral domains and fields, with important examples.
Prerequisite: Y 1701 335.

Y 1701 433
THEORY OF NUMBERS 3.0
Properties of integers, congruences, quadratic reciprocity law, primitive roots, diophantine equations, continued fractions, algebraic numbers, lattice points and partitions.
Prerequisite: Y 1701 221.

Y 1701 436
ELEMENTS OF LOGIC 3.0
Deduction, propositional functions, quantifiers, consistency, decision problems and Goedel's theorem.
Prerequisite: Y 1701 221.

Y 1701 440
STATISTICAL METHODS 3.0
Applications of statistical methods. Estimation, hypothesis testing, inference, enumeration data, correlation, regression, analysis of variance, nonparametric methods and elementary experimental design.
Prerequisite: Y 1701 340.

Y 1701 441
STATISTICAL COMPUTING 3.0
This course is designed: (1) to acquaint students with the use of the computer in solving statistical problems, and (2) to develop intermediate level statistical methodology. Several statistical computing packages and the student's own programs will be utilized.
Prerequisites: Y 0701 183, Y 1701 440.

Y 1701 443
INTRODUCTION TO MATHEMATICAL STATISTICS 3.0
Develops statistical methods from probability theory. Topics discrete and continuous probability distributions, estimation, inference and hypothesis testing.
Prerequisite: Y 1701 440.

Y 1701 450
FOUNDATIONS OF GEOMETRY 3.0
Groups of transformations, an introduction to projective geometry.
Prerequisite: Y 1701 221.

Y 1701 463
INTRODUCTION TO NUMERICAL ANALYSIS 3.0
Finite differences, approximation theory, linear and non-linear equations, error analysis.
Prerequisites: Y 0701 286, Y 1701 335.

Y 1701 464
OPERATIONS RESEARCH I 3.0
Linear programming, transportation problem, assignment problem, duality, sensitivity analysis, network flows, dynamic programming, nonlinear programming, integer programming.
Prerequisite: Y 1701 335.

Y 1701 465
OPERATIONS RESEARCH II 3.0
Game theory, queuing models, inventory models, Markov processes, reliability theory and applications.
Prerequisites: Y 1701 340, 464.

Y 1701 469
MATHEMATICAL MODELING 3.0
The art of constructing mathematical models for "real world" problems, solving the model, and testing the accuracy of the model. Problems will be selected from business, science, computer science, engineering, and the social sciences.
Prerequisites: Y 1701 335 and 340; and either 440 or 464.

Y 1701 470
TEACHING OF MATHEMATICS 3.0
Selection, organization and presentation of junior and senior high school mathematics. Classroom activities, lesson planning, motivation, evaluation, multi-sensory aids and principles of learning.
Prerequisite: Admission to teacher education program.

Y 1701 471
SELECTED TOPICS IN MODERN MATHEMATICS 3.0
Professionalized view of junior and senior high school mathematics topics. Functions, real and complex numbers, analytic geometry, absolute value and inequalities, sets and logic, flow charting, linear programming.
Prerequisite: Admission to teacher education program.

Y 1701 475
HISTORY OF MATHEMATICS 3.0
Histories of geometry, number theory, algebra, calculus and infinite processes.
Prerequisite: Y 1701 221.

Y 1701 490
HONORS SEMINAR IN MATHEMATICS 3.0
This course will concentrate on subject matter not usually covered within other standard mathematics courses. A written and oral report are required.
Prerequisite: Y 1701 222, 335; permission of honors program director.

Y 1701 495
TOPICS IN MATHEMATICS FOR UNDERGRADUATES 1.0-3.0
Students may do independent work in advanced topics under the supervision of an instructor. Study of advanced topics in undergraduate mathematics.
Prerequisites: Y 1701 222 and instructor's permission.

Y 1701 497
UNDERGRADUATE RESEARCH
IN MATHEMATICS I 1.0-3.0
Individual research in a mathematical area agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 4 credits total in courses 0701, 497, 498; 1701, 497, 498.
Prerequisites: Y 1701 335, Majors only, instructor's permission.

Y 1701 498
UNDERGRADUATE RESEARCH
IN MATHEMATICS II 1.0-3.0
Individual research in a mathematical area agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses 0701 497, 498; 1701 497, 498.
Prerequisite: Y 1701 335, Majors only, instructor's permission.

Music

SCHOOL OF FINE AND PERFORMING ARTS
Acting Chairperson: Ruth Rendleman

The Department of Music stresses performance skills, breadth of musical understanding and work in the liberal arts. The department is accredited by the National Association of Schools of Music and is approved by the National Association for Music Therapy. Two degrees are offered, the Bachelor of Music and the Bachelor of Arts.

Concentrations available within the Bachelor of Music program are Performance, and Theory/Composition. Concentrations within the Bachelor of Arts program in Music are Music Education, Music History, and Music Therapy.

Entrance Requirements

General

Those who wish to major in music must have an interview and an audition on a primary instrument or voice. Prospective music majors should be able to show musicality, primary and secondary performing skills and knowledge of elementary music theory. It is important to have studied music seriously throughout high school. Participation in choral and/or instrumental groups and piano study are highly recommended for all applicants.

Applied Music

Secondary Instruments

- All non-keyboard majors must study secondary piano or pass qualifying examinations in piano.
- Placement in any other secondary instruments is by audition.

Primary Instruments

Piano

- A work of J.S. Bach.
- A movement from a sonata by Beethoven, Haydn, or Mozart.
- A third work of comparable difficulty of the candidate's choice. This work must come from the traditional keyboard repertoire: no original compositions, no transcriptions, no jazz works.
- Two of the above selections should be from memory.
- Sightreading will be required.

Performance Concentration Requirements:

- J.S. Bach: any prelude and Fugue from the Well-Tempered Clavier, or any three movements of a suite.
- A complete sonata by Beethoven, Haydn, or Mozart.
- One large scale (approximately 10 minutes) work from the 19th or 20th century (Ex.: Chopin Ballade, group of Chopin/Brahms works representing lyrical and virtuoso style).
- *All music must be played from memory.*
- Sightreading.

Organ

- Two compositions for piano: Ex.: Bach: an invention (two or three parts), Beethoven, Chopin, Debussy, *et al.*, a work of student's choice from standard keyboard literature.
- A baroque organ piece, adagio, by any composer.
- A contemporary selection of the student's choice.
- Sightreading.

Performance Concentration Requirements:

- A major work by J.S. Bach.
- A major work from the romantic literature (10–15 minutes).
- A major work from the contemporary literature (10–15 minutes).
- Sightreading.

Harpsichord

- Sightreading.
- Four pieces (about 20 minutes of music): at least one piece played from memory: one slow movement, one fast movement.

Performance Concentration Requirements:

- A major baroque work.
- A major contemporary work (10 minutes).
- Another representative work of student's choice (10 minutes).
- *All music must be played by memory.*
- Sightreading.

Voice

- Three memorized songs chosen from the solo voice literature. One may be from the American musical theatre literature; these three songs must include: one song in a foreign language, one song in English, one additional song, selected at the discretion of candidate (this song may be from a musical comedy).
- Sightreading.

Performance Concentration Requirements:

- One 16th–18th century classic song or aria (Bach, Handel, Scarlatti, etc.).
- One 19th century German or French Art song.
- One 20th century American or English song.
- One additional song, selected by candidate.
- *All of above selections from memory.*
- Sightreading.

Violin

- All major and minor scales, two or three octaves.
- Two contrasting works from the standard violin repertoire (Ex.: concerti or sonatas of Bach, Bruch, Handel, Mozart, Lalo, Mendelssohn, Nardini; solo works of Dancla, DeBeriot, Kreisler, or Wieniawski); memory on at least one work is preferable.
- One etude from Kayser, Kreutzer, Wohlfahrt, Mazas.
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales, two or three octaves.
- Concerto from standard violin repertoire: first movement with cadenza, memorized (Ex.: Bruch, Lalo, Mendelssohn, Mozart, Saint-Saëns).
- Two contrasting movements from a sonata or suite (preferably Bach), memory preferable.
- Etude, (Dont Op. 37, Fiorillo, or Kreutzer).
- Sightreading.

Viola

- All majors and minor scales, two or three octaves.
- Two contrasting works (Ex.: Weber: *Andante and Rondo Ongerese;* Hummel: *Fantasie;* Bloch: *Suite Hebraique;* Jacob: *Air and Dance;* Piston: *Interlude;* Telemann: Concerto in G).
- A standard etude (from Bruni, Fuchs, Kayser, Kreutzer, Kreuz or Mazas).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales, two or three octaves.
- Two contrasting movements from a solo Bach Suite, Sonata, or Partita.
- A major work from the repertoire (Ex.: Schubert: *Arpeggione Sonata;* Schumann: *Märchenbilder,* Brahms Sonata; Parts 1, 2, or 3 from Vaughan Williams Suite; Weber: *Andante and Rondo).*
- Etude (Ex.: Bruni, Campagnoli, Dont Op. 37, Fiorillo, Fuchs, or Rode).
- Sightreading.

Cello

- All major and minor scales, two or three octaves.
- Two or three works in contrasting styles (15 minutes of music).
- One technical etude.
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales, two or three octaves.
- One sonata or suite.
- One concerto, any period (preferably first movement).
- One technical etude.
- Sightreading.

Double Bass

- All major and minor scales, two octaves.
- One etude from Simandl *30 Studies* or similar.
- Two movements from a sonata such as any Marcello, Vivaldi or similar work.
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales, two octaves.
- One complete sonata or suite.
- One technical etude.
- One other composition of candidate's choice.
- Sightreading.

Guitar

- Technique demonstration: Scales (Ex.: Segovia scales); Arpeggios (Ex.: Abloniz, Pujol, etc.); Ligados (Ex.: Abloniz, Shearer, etc.).
- Three pieces from the concert repertoire in contrasting style and periods (Ex.: Bach, Carcassi, Guiliani, Sor, Tarrega, Villa-Lobos).
- Sightreading.

Performance Concentration Requirements:

- Technique demonstration (see above):
- Four pieces from the concert repertoire in contrasting style, and contrasting periods, at least two from memory (20-30 minutes of music).
- Sightreading.

Harp

- An etude of student's choice (Pizzoli, Rolchsa, Salzedo).
- Two pieces from the concert repertoire in contrasting style (Ex.: Naderman, Krumpholtz: Sonatas; Grandjany: *Two French Folk-songs;* Pratt: *Little Fountain*).
- Sightreading.

Performance Concentration Requirements:

- An etude of student's choice (Pizzoli, Rolchsa, Salzedo).
- Three pieces from the concert repertoire in contrasting style, 20 minutes of music, from memory.
- Sightreading.

Flute

- Chromatic and all major scales, full range of instrument.
- Two works, contrasting style, at least 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Oboe

- Chromatic and all major scales, full range of instrument.
- Two prepared solo pieces in contrasting styles, 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Clarinet

- Chromatic and all major scales, full range of instrument.
- Two prepared solo pieces in contrasting styles, 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Bassoon

- Chromatic and all major scales, full range of instrument.
- Two works, contrasting style, at least 10 minutes of music (one may be etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Saxophone

- Chromatic and all major scales, full range of instrument.
- Two works, contrasting style, at least 10 minutes of music (one may be etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Trumpet/Cornet

- All major scales, two octaves where possible.
- Two contrasting works from standard solo repertoire, at least 10 minutes of muisc (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Trombone

- All major scales, two octaves where possible.
- Two contrasting works from standard solo repertoire, at least 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

French Horn

- All major scales, one octave.
- Two contrasting works from standard solo repertoire, at least 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Tuba/Euphonium/Baritone

- All major scales.
- Two contrasting works from standard solo repertoire, at least 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Percussion

- Timpani: Tuning, execution of single-stroke roll.
- Snare Drum: Selected technical rudiments (Closed rolls, flams, ruffs, and rhythms).
- Mallet instruments: all major and minor scales, I, IV, V arpeggios, a solo piece of the student's choice.

Performance Concentration Requirements:

- Two prepared solo pieces from the standard repertoire, at least 10 minutes of music, on instrument of candidate's choice.

Final Admission to Program

Theory/Composition

Final admission in junior year; in addition to full audition requirements, candidates must submit a portfolio of compositions and/or analytical sketches before completion of sophomore year.

Music Therapy

Final admission in junior year; in addition to full audition requirements, all credentials (including reports of clinical experience) will be evaluated at the end of sophomore year.

Performance

Provisional acceptance is determined by an Applied Music jury at the end of the freshmen year unless a postponement to the middle of the sophomore year is requested by the major teacher. Full admission is delayed until completion of a sophomore recital and demonstration of a solid grasp of the technical aspects of the performing medium and genuine musicality and sensitivity.

Music History

Candidates must demonstrate excellence in writing and speaking. In addition to proven interest in music and demonstration of performance skills, candidates must maintain an excellent record in traditional academic disciplines.

Music Education

Final admission is granted only after an interview and review of credentials toward the end of the sophomore year.

Comprehensive Examination/ Assessment

At the end of the sophomore year, all students must demonstrate comprehensive musicanship in the performing primary, functional keyboard skills, theoretical and practical skills, secondary vocal skills and other materials germane to the student's concentration. Continuation as a music major is dependent upon adequate performance in these areas.

Applied Music Requirements for Graduation

All music students must study with members of the College faculty. There is an applied music fee which must be paid for private instruction in addition to tuition.

Students majoring in performance will present a recital before the end of the sophomore year and another in the senior year. Students majoring in music education will present a recital in the senior year.

Students are expected to accompany at a level of their ability as designated by their teachers and to participate actively in the musical life of the college and community.

All students, with the exception of first-semester freshmen, are expected to perform during a noon recital program at least once each semester of primary study.

Secondary instruction beyond the minimum requirements is available when schedules and other considerations allow.

Student Recital/Seminar Requirements for Graduation

Each week the department of Music sponsors mid-day performances by students and lecture/recitals by faculty and guests. Every music major must register for H 1005 029, *Student Recital/Seminar,* on a pass-fail basis, for eight semesters or every semester of attendance at Montclair State College.

Ensemble Requirements for Graduation

The ensemble policy is based on the principle that all students must perform in ensemble(s) every semester of their attendance at Montclair State College in order to assure the broadest possible experience in important ensemble repertoire and to assure that these ensembles have the needed instrumentation for successful performance. Although minimum requirements vary with the concentration, this principle is the overriding one. In most cases, students will be expected to perform in their primary ensemble during each semester of attendance.

Students may be assigned by the department chairperson to an ensemble in accordance with the needs of the department, regardless of the satisfaction by the student of his minimum requirements.

Where admission to a chamber ensemble is by audition and a student fails to gain admission, additional performance in a large ensemble may, with the chairperson's consent, be substituted. Chamber ensembles must perform once a semester, either on student recital or for a jury.

Any changes in the ensemble policy will be posted in the Music department.

Music Education: majors in voice, keyboards or guitar

6 semesters of choir
2 semesters of laboratory band
2 semesters of laboratory orchestra
2 semesters of chamber ensemble

Music Education: majors in stringed instruments

6 semesters of orchestra
4 semesters of choir
2 semesters of chamber ensemble

Music Education: majors in brass, woodwinds, percussion

6 semesters of band
4 semesters of choir
2 semesters of chamber ensemble

Performance: majors in voice

8 semesters of choir
4 semesters of chamber ensemble, including Opera Workshop
4 elective semesters

Performance: majors in guitar

8 semesters of chamber ensemble
4 semesters of choir
4 elective semesters

Performance: majors in stringed instruments

8 semesters of orchestra
4 semesters of chamber ensemble
4 elective semesters

Performance: majors in brass, woodwinds, percussion

8 semesters of band
2 semesters of choir
3 semesters of chamber ensemble
3 elective semesters

Performance: majors in keyboard instruments

8 semesters of choir
5 semesters of chamber ensemble
3 elective semesters

Theory/Composition: majors in voice, guitar

4 semesters of choir
8 semesters of chamber ensemble
4 elective semesters

Theory/Composition: majors in stringed instruments

8 semesters of orchestra
4 semesters of chamber ensemble
4 elective semesters

Music Therapy:

6 semesters using primary instrument
2 semesters using secondary instrument

Music History: majors in voice, guitar, keyboard

6 semesters of choir
2 elective semesters

Music History: majors in brass, woodwinds, percussion

6 semesters of band or orchestra
2 elective semesters

For the purposes of the above requirements, "chamber ensemble" includes Collegium Musicum, and all solo/duet/trio/etc., repertoire which does not duplicate materials studied for solo recital or jury performance.

Performance Dress Code

Since the department of Music has the training of future professional musicians as one of its major objectives, the music student is expected to dress as a professional whenever appearing before the public.

Mid-Day Recitals

Men: Dark suit, white shirt with collar, simple necktie, shoes and socks matching the suit. No informal attire is allowed.
Women: Simple dress or skirt and blouse; hose and dress shoes; simple costume jewelry is permitted but nothing that would be gaudy or distracting or that would call attention to itself.

Solo Recitals

Men: Same as for ensemble wear (see below) or simple tuxedo with appropriate accessories.
Women: Formal gowns, jewelry, hose and shoes appropriate to restraint in dress and avoidance of distraction.
Accompanists: Same as for ensemble wear (see below) or matching the attire of the soloist.

Ensembles

Men: Black or dark blue suit, solid color white collar shirt, with black, solid color four-in-hand tie; black shoes; black, over-the-calf hose.
Women: Black floor-length, solid color skirt, with either solid white long-sleeved blouse; hose, black shoes. Black pants suit with white blouse is also acceptable.

Instrumental Rental

A fee of $20 (subject to change) per semester is charged students who rent college-owned instruments. Summer rental is considered as a separate semester for this purpose.

Degree Requirements

All Majors

	Semester Hours
1005 029 Student Recital/Seminar, 8 semesters	0
1006 307/308 Music History I, II	6
1016 101, 102, 201, 202 Theory I, II, III, IV	12
1016 103, 104, 203, 204 Aural Skills I-IV	4
Secondary Piano (non-keyboard majors)	0-4
Ensembles (see above)	4-8

Music Education Concentration
(in addition to requirements for all majors)

Applied Music	18
Primary Instrument I-VII	14
Secondary Instrument I-IV	4
Senior Recital	0
Music Theory	6
1016 303, 304 Theory V-Counterpoint, Theory VI-Orchestration	6

Additional Music Requirements 20-22
(Vocal/Instrumental Majors)

0832 105, 205, 206, 306 Instrumental Methods (1 semester hour each) 4
0832 200 Introduction to Music Education 2
0832 334, 335 Choral Techniques 4
0832 132 Marching Band Techniques 2
0832 320 Teaching Music in the Elementary Grades K-6 3
0832 420 The Teaching of Music in Secondary Schools 3
0832 201, 202 Practicum in Music Education I, II 2
1016 310, 311 Keyboard Harmony I, II (Keyboard Majors) 2

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. In addition, students must satisfactorily complete the courses 0832 320 Teaching Music in the Elementary School and 0832 420 The Teaching of Music in Secondary Schools.

Concentration in Performance: Voice
(in addition to requirements for all majors)

Applied Music 36

Primary/Major Instrument 28
1004 040 Master Class in Performance 4
1004 3101, 3102, 3103, 3104 Secondary Piano I-IV 4
Sophomore, Junior and Senior Recitals 0

Additional Music Requirements 8

1004 340, 342/3, 344/5, 346/7 Italian, French, German and English Repertory and Diction

Required Collateral and General Education Courses 18

French, Italian and German languages (2 semesters each) 18

Concentration in Performance: Keyboard
(in addition to requirements for all majors)

Applied Music 32

Primary/Major Instrument 28
1004 040 Master Class in Performance 4
Sophomore, Junior and Senior Recitals 0

Music Theory 8

1016 303, 304 Theory V-Counterpoint, Theory VI-Orchestration 6
1016 310, 311 Keyboard Harmony I, II 2

Additional Music Requirements 12

1004 201, 202 Piano Literature I, II 4
1004 204 Piano Accompanying 2
1004 335 or 429 Conducting 2
1004 439, 440 Piano Pedagogy I, II 4

Concentration in Performance: Instrumental
(in addition to requirements for all majors)

Applied Music 40

Primary/Major Instrument 28
1004 040 Master Class in Performance 4
1004 3101, 3102, 3103, 3104 Secondary Piano I-IV 4
1004 276, 277 Instrumental Literature I, II 4
Sophomore, Junior and Senior Recital 0

Music Theory 6

1016 303, 304 Theory V-Counterpoint
Theory VI-Orchestration 6

Additional Music Requirements 6

1004 439 Pedagogy I 2
1004 335 or 429 Conducting 2
Elective 2

Theory/Composition Concentration
(in addition to requirements for all majors)

Applied Music 20

Primary Instrument 8
Secondary Instrument 4
Instrumental Instruction 8

Music Theory and Composition 28

1016 303, 304 Theory V-Counterpoint
Theory VI-Orchestration 6
1016 310, 311 Keyboard Harmony I, II 2
1016 412 Electronic Music Composition 3
1016 341, 342, 443, 444 Private Study in Composition I-IV 8
1016 401 Musical Composition 2
Electives 6
Note: If piano is the student's secondary instrument, a music elective may be taken instead of Keyboard Harmony I, II; if piano is the primary instrument, Seconday Piano I-IV is not required, but Piano Accompanying and a 2-semester-hour music elective must be taken.

Additional Music Requirements 5

1006 407 Music History III 3
1004 335 or 429 Elementary or Choral Conducting 2

Music Therapy Major
(in addition to requirements for all majors)

Applied Music 14

Primary Instrument 8
Secondary Instrument 4
1004 3171, 3172 Secondary Guitar I, II 2

Music Theory 2

1016 401 Musical Composition 2

Additional Music Requirements 9

0832 105, 205, 206, 306 Strings, Brass, Woodwinds, Percussion 4
1004 335 or 429 Elementary Conducting or Choral Conducting 2
1005 150 Influence of Afro-American Culture on Music *or*
1005 160 Introduction to Music in World Cultures 3

Additional Music Therapy Requirements

1095 262, 263, 361, 362, 363, 364 Practicum I-VI 6
1095 260 Methods and Materials in Music Therapy 2
1095 260 Piano Improvision for the Music Therapist 1
1095 3106 Piano Accompanying Techniques for the Music Therapist 1

Professional Sequence 24

1095 400 Music Therapy Training Group 3
1095 160 Introduction to Music Therapy I 2
1095 261 Therapy and Observation Skills for Music Therapy 2
1095 461 Music Therapy with Children 3
1095 462 Music Therapy with Adults 3
1095 463, 464 Psychological Foundation of Music I, II 4
1095 465 Internship in Music Therapy 1
2001 201 Child Psychology 3
2001 365 Abnormal Psychology 3

Required Collateral and General Education Courses 12

0831 410 Introduction to Art Therapy 3
2001 101 General Psychology I 3
2001 235 Psychology of Exceptional Children and Youth 3
2208 204 Sociology of the Family 3

Music History Concentration
(in addition to requirements for all majors)

Applied Music 8

Primary Instrument 4
Secondary Instrument 4

Music Theory 3

Electives 3

Music History and Literature 18

1005 160 Introduction to Music in World Cultures 3
1006 462 Seminar in Music I 3
Electives 12
Thesis 0

Required Collateral and General Education Courses 48

German 12
1007 100 Introduction to Theatrical Medium 3
Elective in History or Literature 3
Elective in Art History 3
Elective in Theatre History 3
1001 100 Introduction to Visual Arts 3
1503 172 Western World Literature 3
French I and II or Italian I and II 6
0701 108 Computers and Programming 3
2205 142 Twentieth Century Global Civilization 3
0838 101 Contemporary Business 3
Elective 3

Courses of Instruction

H 0832 105
STRING INSTRUMENTS I 1.0
Elementary playing skills, violin being the basic instrument for all who lack string experience; materials and methods for beginning string classes.

H 0832 106
STRING INSTRUMENTS II 1.0
Continuation of 0832 105.

H 0832 132
MARCHING BAND TECHNIQUES 2.0
Methods, organization and planning. Drill design, playing, rehearsal techniques.

H 0832 200
INTRODUCTION TO MUSIC EDUCATION 2.0
Methodologies, techniques and materials of music education. Philosophical and practical foundations and applications of learning theories.
Prerequisites: Sophomore music-major status.

H 0832 201
PRACTICUM IN MUSIC EDUCATION I 1.0
Supervised observation and participation in public school music classes and activities.
Prerequisites: Music major; departmental permission.

H 0832 202
PRACTICUM IN MUSIC EDUCATION II 1.0
Development of teaching skills by observation of public school music instruction and by serving as a teacher's aide.
Prerequisites: Music major; H 0832 201; permission of advisor.

H 0832 205
BRASS INSTRUMENTS 1.0
Skills on trumpet, horn, trombone and other brasses; materials and procedures for teaching these instruments in beginning classes. *Music majors only.*

H 0832 206
WOODWIND INSTRUMENTS 1.0
Skills on clarinet, flute, oboe and other woodwinds; materials and methods for teaching these instruments; organizing woodwind classes. *Music majors only.*

H 0832 303
CREATIVE MOVEMENT AND DANCE EXPERIENCES FOR CHILDREN 2.0
Designing dance and movement experiences which enhance the music learning process. A focus on strategies appropriate for the elementary music classroom. Active participation.

H 0832 306
PERCUSSION INSTRUMENTS 1.0
Elementary skills on snare drum, bass drum, timpani, cymbals, bells, etc.; materials and methods for teaching these instruments in the classroom.
Prerequisite: H 1016 202.

H 0832 320
TEACHING MUSIC IN THE ELEMENTARY GRADES K-6 3.0
Processes of music teaching which enhance problem solving and critical thinking. Principles of designing strategies which encourage the development of music skills, creative musical thinking, and positive attitudes in both the general and instrumental classroom setting. Sequential curriculum. Discussion of current methodologies.
Prerequisites: H 1016 202, Instructor's permission.

H 0832 334
CHORAL TECHNIQUES I 2.0
Tone production, phrasing, enunciation, interpretation, testing and classification of voices, balancing parts, rehearsal routines, accompanying and conducting.
Prerequisite: H 1016 202.

H 0832 335
CHORAL TECHNIQUES II: CONDUCTING 2.0
Rehearsal and performance techniques involved in such matters as attack, release, interpretation, balance, historical style, blend.
Prerequisite: H 0832 334 or equivalent.

H 0832 420
THE TEACHING OF MUSIC IN SECONDARY SCHOOLS 3.0
Philosophy, aims, content and procedures of music teaching in the junior and senior high school; emphasis upon the teaching of the general music class and the incorporation of new methods; lesson plans and units of work for use in the classroom. Includes observation and participation.
Prerequisite: H 0832 320.

H 0832 499
INDEPENDENT STUDY IN MUSIC EDUCATION 1.0–4.0
Project and/or study area planned with sponsoring faculty member.
Prerequisite: Instructor's permission.

H 1004 020
MADRIGAL SINGERS 0.0–0.5
Study through rehearsal and performance of madrigals. Open to all through audition.

H 1004 030
CHOIR 0.0–0.5

H 1004 031
ORCHESTRA 0.0–0.5

H 1004 032
BAND 0.0–0.5

H 1004 034
OPERA WORKSHOP 0.0–2.0
Opera studied through performance. Nature of dramatic music, problems of movement, make-up, costuming, props and scenery.
Prerequisite: Instructor's permission.

H 1004 036
ENSEMBLE PERFORMANCE 3.0
7½ week ensemble performance in the student-teaching semester of the junior year. *Music education majors only*, primary ensemble.

H 1004 037
ENSEMBLE PERFORMANCE 2.0
7½ week ensemble performance in the student-teaching semester of the senior year. *Music education majors only*, primary ensemble.

H 1004 038
COLLEGIUM MUSICUM 0.0–0.5
Study of early instruments: Viola da gamba, lute, recorder, cromorne, sackbut, organetto, psaltery, etc. Concert performance of Medieval, Renaissance and early Baroque music.

H 1004 040
MASTER CLASS IN PERFORMANCE 0.5
Performance of repertoire for coaching in interpretation, style, analysis, technique, etc. required in conjunction with each course in the primary and major instrument.
Prerequisite: Primary instrument requirement must be met.

H 1004 060
MUSIC THEATRE PRACTICUM 1.0
Preparation and presentation of a work of musical theatre.
Prerequisite: Audition or permission of instructor.

H 1004 100
CLASS PIANO FOR THE NON-MUSIC MAJOR 3.0
Basic skills and fundamental knowledge of the keyboard. A basic knowledge of music reading is helpful but not necessary.

H 1004 101
CLASS PIANO FOR THE NON-MUSIC MAJOR II 3.0
Continuation of basic skills and fundamental knowledge of keyboard. Music reading, both treble and bass clefs, required. Skills covered include sightreading, technical exercises, harmonization of melodies, and improvisation. The course will contain materials from various styles and periods of music, including baroque, classical, and jazz.
Prerequisite: H 1004 100 or permission of instructor.

H 1004 103
VOICE CLASS FOR THE NON-MUSIC MAJOR 3.0
Study of singing through vocal exercises and the performance in class of English and American art, theatrical and popular songs.

H 1004 105
MODERN GUITAR WORKSHOP 3.0
Sight reading, chord playing and technical skills needed for the commercial musical scene. Latin music, swing rhythms, rock interpretations, jazz styles (chord and single note soloing), effective accompaniment styles. Open to majors and non-majors. Basic knowledge of guitar, some reading ability required.

H 1004 107
RECREATIONAL INSTRUMENTS FOR THE NONREADER OF MUSIC 2.0
Elementary playing, accompanying and teaching skills on instruments such as accordion, recorder, tonette, autoharp, ukulele, harmonica, and guitar.
Prerequisite: Permission of instructor.

H 1004 201
PIANO LITERATURE I 2.0
Investigation through performance of and directed listening to standard piano repertory from J.S. Bach to the present.
Prerequisite: Permission of instructor.

H 1004 202
PIANO LITERATURE II 2.0
Continuation of Piano Literature I
Prerequisite: H 1004 201, majors only.

H 1004 203
SOPHOMORE RECITAL 0.0
Public performance of solo literature. Required of 1004 majors.
Prerequisite: Three semesters of private instruction or equivalent.

H 1004 204
PIANO ACCOMPANYING 2.0
Problems of transposition, ensemble, interpretation and sight reading as applied to accompanying vocal and instrumental literature.
Prerequisite: Technique satisfactory to instructor.

H 1004 255
PROBLEMS OF PERFORMANCE 3.0
Development of techniques needed for success in public appearances involving music, theatre, speech, etc. Resolving such problems as stage fright, memory loss, pre-performance anxiety. Attaining self-understanding and confidence using techniques of Havas, Berne, Horrigfl, Weekes, Alexander, others. Guest performers. Open to all majors. (Listed also under Dept. of Psychology T 2001 255.)

H 1004 276
INSTRUMENTAL LITERATURE I 2.0
Survey of various instrumental genres for solo, small ensemble and orchestra.
Prerequisite: Performance ability on standard orchestra-band instrument.

H 1004 277
INSTRUMENTAL LITERATURE II 2.0
Continuation of Instrumental Literature I.
Prerequisite: H 1004 276, majors only.

H 1004 301
CHAMBER ENSEMBLE PERFORMANCE 0.0–0.5
Study through playing or singing of chamber music in ensembles of varying size and musical styles.
Prerequisite: Ability to perform at a level satisfactory to instructor.

H 1004 302
JAZZ ENSEMBLE 0.0–0.5
Contemporary ensemble requirements such as jazz phrasing, section playing, interpretation, improvisation studied through ensemble rehearsal and performance.
Prerequisite: Permission of instructor.

H 1004 303
JUNIOR RECITAL 0.0
Public performance of solo literature. Required of 1004 majors if H 1004 203 not completed.
Prerequisite: Five semesters of private instruction or equivalent.

H 1004 304
JAZZ KEYBOARD AND THEORY 2.0
Introduction to jazz techniques of harmonization, improvisation and theory at the keyboard in varying styles.
Prerequisites: H 1004 101, 102, 103, 104 or instructor's permission.

H 1004 335
ELEMENTARY CONDUCTING 2.0
Baton techniques and clef reading in orchestral and choral scores.
Prerequisite: H 1016 202.

H 1004 340
ITALIAN REPERTORY AND DICTION I 1.0
Italian art songs; interrelation of music with text; the vocal musical line and the instrumental part; technical and stylistic demands of the music; Italian diction introduced. Emphasis on listening and performing. Majors only.

H 1004 341
ITALIAN REPERTORY AND DICTION II 1.0
Continuation of H 1004 340.
Prerequisites: H 1004 340, basic knowledge of Italian diction, majors only.

H 1004 342
FRENCH REPERTORY AND DICTION I 1.0
Basic French for singing; enunciation and pronunciation; vocabulary.
Prerequisites: Some fundamental knowledge of use of singing voice, majors only.

H 1004 343
FRENCH REPERTORY AND DICTION II 1.0
Continuation of H 1004 342. Study of French repertory. Projection of text, musical style.
Prerequisites: H 1004 342, basic knowledge of French diction.

H 1004 344
GERMAN REPERTORY AND DICTION I 1.0
Basic German for singing; enunciation and pronunciation; vocabulary.
Prerequisites: Some fundamental knowledge of use of singing voice, majors only.

H 1004 345
GERMAN REPERTORY AND DICTION II 1.0
Continuation of H 1004 344. Advanced material; study of German repertory; projection of text, musical style.
Prerequisites: H 1004 344, basic knowledge of German diction.

H 1004 346
ENGLISH REPERTORY AND DICTION I 1.0
Basic rules for singing in English; correcting poor everyday speech habits; learning songs.
Prerequisites: Fundamental knowledge of the singing voice, majors only.

H 1004 347
ENGLISH REPERTORY AND DICTION II 1.0
Continuation of H 1004 346. Art songs, contemporary arias. Meaning of text and means of communicating words to the audience.
Prerequisites: H 1004 346, some experience in vocal performance.

H 1004 400
SELECTED TOPICS IN MUSIC I 1.5
Intensive study of a single composer or limited array of works; may be taken a second time; 7-week course. May repeat.
Prerequisite: Majors only or permission of instructor.

H 1004 401
SELECTED TOPICS IN MUSIC II 1.5
Intensive study of a single composer or limited array of works; may be taken a second time; 7-week course. May repeat.
Prerequisite: Majors only or permission of instructor.

H 1004 403
SENIOR RECITAL 0.0
Public performance of solo literature. Required of 0832 and 1004 majors.
Prerequisite: Six semesters of private instruction or equivalent, majors only; instructor's permission.

H 1004 410
JAZZ IMPROVISATION LAB 2.0
Jazz improvisation and performance techniques studied through ensemble rehearsals; creative use of instrumental and harmonic skills in the jazz idiom.

H 1004 429
CHORAL CONDUCTING 2.0
Tone production, tuning, posture, score reading; interpretation and techniques of choral conducting; materials suitable for use in high school.
Prerequisite: H 1004 335.

H 1004 436
PIANO PEDAGOGY I 2.0
Methods and materials of teaching piano for piano grades I through IV.
Prerequisite: Music major—junior or senior.

H 1004 437
PIANO PEDAGOGY II 2.0
Methods and materials of teaching piano for piano grades V through VIII.
Prerequisite: Music major—junior or senior & completion of H 1004 436.

H 1004 439
PEDAGOGY I 2.0
Methods and materials of instruction in music.

H 1004 440
PEDAGOGY II 2.0
Continuation of H 1004 439.

H 1004 441
PEDAGOGY OF THE VOICE 2.0
Teaching techniques and pedagogical literature pertinent to instruction in singing.

H 1004 461
PROJECT IN MUSIC I: OPERA PRODUCTION 3.0
Student production and direction of a contemporary opera, folk musical or original work. Open to all students by audition.

H 1004 471
COMMERCIAL MUSICAL SKILLS 3.0
Techniques of singing, playing, conducting, composing and arranging as demanded in the music industry; auditioning, preparation of material for advertising, rehearsal techniques; problems of musical theatre, television, recording and cinema.
Prerequisite: Performing ability as a singer or instrumentalist at a level satisfactory to the instructor.

H 1004 499
INDEPENDENT STUDY IN MUSIC PERFORMANCE 1.0-4.0
Project and/or study planned with sponsoring faculty member.
Prerequisite: Instructor's permission.

H 1004 3101
SECONDARY INSTRUMENT I: PIANO 1.0
Keyboard skills including major and minor scales, arpeggios and chord progressions, sightreading, transposition, harmonization, improvisation.

H 1004 3102
SECONDARY INSTRUMENT II: PIANO 1.0
Continuation of 1004 3101.
Prerequisite: H 1004 3101.

H 1004 3103
SECONDARY INSTRUMENT III: PIANO 1.0
Continuation of 1004 3102.
Prerequisite: H 1004 3102.

H 1004 3104
SECONDARY INSTRUMENT IV: PIANO 1.0
Continuation of 1004 3103. A comprehensive examination must be passed at the end of the semester.
Prerequisite: H 1004 3103.

H 1004 3171
SECONDARY INSTRUMENT GUITAR I 1.0
Basic techniques of guitar playing, including chording and melodic work.

H 1004 3172
SECONDARY INSTRUMENT GUITAR II 1.0
Continuation of H 1004 3171.

H 1005 029
STUDENT RECITAL no credit
All music majors must regiater for this number every semester in order to free their schedules for recital commitments.

H 1005 100
INTRODUCTION TO MUSIC 3.0
Expansion of musical awareness through live performance and directed listening.

H 1004 150
INFLUENCE OF AFRO-AMERICAN CULTURE ON MUSIC 3.0
Ways in which Afro-American culture has affected the development of American folk and art music.

H 1005 209
INTRODUCTION TO JAZZ 3.0
Jazz as an American phenomenon; musical materials as manipulated by jazz artists; the impact on American popular music, dance and theatre; early jazz players and developments.

H 1005 236
THE AMERICAN MUSICAL 3.0
Introduction to the varieties of style in music for the purpose of extending dramatic action, characterization and atmosphere in musicals, operettas and musical comedies. Representative works from 1927 to the present.

H 1005 309
THE ART OF JAZZ 3.0
Development of jazz in America and abroad; sociological implications in American society and the impact of jazz upon contemporary composition.

H 1005 462
PROJECT IN MUSIC II: OPERA STUDY TOUR 3.0
Study tour to different locations described in Winter session brochure each time it is offered. Offered during Winter session only. Open to all. Enrollment limited to twenty students. Special fee required.
Prerequisite: Instructor's permission.

H 1005 499
INDEPENDENT STUDY IN MUSIC 1.0–4.0
Project and/or study planned with sponsoring faculty member.

H 1006 307
MUSIC HISTORY I 3.0
Research method and music bibliography. Styles, genres and shaping forces of western music from the rise of polyphony in the Middle Ages through the music of Haydn and Mozart.
Prerequisites: H 1016 202, majors only, or instructor's permission.

H 1006 308
MUSIC HISTORY II 3.0
Continuation of H 1006 307, beginning with Beethoven. The music of the Romantic Era as manifested in the nineteenth and twentieth centuries; major currents of the modern era.
Prerequisite: H 1006 307 or instructor's permission.

H 1006 400, 401
SELECTED TOPICS IN MUSIC I, II 1.5 each
Intensive study of a single composer or of a limited array of works. May be taken a second time. 7-week course.
Prerequisites: H 1006 307, 308 or instructor's permission.

H 1006 407
MUSIC HISTORY III 3.0
Major figures, forms, genres and styles from Debussy to the present.
Prerequisite: H 1006 308.

H 1006 499
INDEPENDENT STUDY: MUSIC HISTORY AND LITERATURE 1.0–4.0
Project and/or study planned with sponsoring faculty member.
Prerequisite: Instructor's permission.

H 1016 101
THEORY I 3.0
Study of harmony, counterpoint and musical analysis of small forms. Must be taken with H 1016 103. Meets for four hours weekly.
Prerequisite: Majors only or instructor's permission.

Corequisite: H 1016 103

H 1016 102
THEORY II 3.0
Continuation of H 1016 101. Meets for four hours weekly. Must be taken with H 1016 104.
Prerequisites: H 1016 101, majors only, or instructor's permission.

H 1016 103
AURAL SKILLS I 1.0
Sight reading and dictation in major and minor modes, using diatonic chord progressions. Basic solfeggio. Must be taken with H 1016 101.
Prerequisites: Majors only; instructor's permission.

H 1016 104
AURAL SKILLS II 1.0
Continuation of H 1016 103. Must be taken with H 1016 102.
Prerequisite: H 1016 103; majors only; instructor's permission.

H 1016 150
FUNDAMENTALS OF MUSIC FOR THE NON-MAJOR 3.0
Introduction to music notation: Reading of clefs, key signatures and their relationship to various modes; rhythm and meter; basic harmonic structures (intervals, triads, and seventh chords). Sight singing and dictation.

H 1016 201
THEORY III 3.0
Chromatic harmony; intermediate contrapuntal techniques; analysis of larger instrumental forms. Must be taken with H 1016 203. Meets for four hours weekly.
Prerequisites: H 1016 102, majors only, or instructor's permission.

H 1016 202
THEORY IV 3.0
Continuation of H 1016 201. Meets four hours weekly. Must be taken with H 1016 204.
Prerequisites: H 1016 201. Music majors only, or instructor's permission.

H 1016 203
AURAL SKILLS III 1.0
Chromatic and non-tonal sight reading and dictation. "Fixed do" solfeggio. Must be taken with H 1016 201.
Prerequisite: H 1016 104, majors only, instructor's permission.

H 1016 301
PROSEMINAR IN MUSIC THEORY 3.0
Coordinating seminar in analytical and aural skills and harmonic, contrapuntal and compositional procedures found in western art music, focusing on selected topics relevant to undergraduate study.

H 1016 303
THEORY V: COUNTERPOINT 3.0
Study of part writing, species and free contrapuntal practices and techniques. Contrapuntal and layer analysis.
Prerequisite: H 1016 202 or instructor's permission.

H 1016 304
THEORY VI: ORCHESTRATION 3.0
Study of compositional and arranging techniques appropriate to writing for individual instruments and voices and for ensembles of various size and character.
Prerequisites: H 1016 202, majors only.

H 1016 310
KEYBOARD HARMONY I 1.0
Skills pianists will need as professional performers, therapists, and educators. Harmonization, transposition, improvisation, realization of figured bass, reduction of open scores and sightreading.
Prerequisite: Status as a keyboard major.

H 1016 311
KEYBOARD HARMONY II 1.0
Continuation of H 1016 310.
Prerequisite: H 1016 310, majors only.

H 1016 341
PRIVATE STUDY IN COMPOSITION I 2.0
Restricted to majors in Theory/Composition.
Prerequisite: H 1016 202.

H 1016 342
PRIVATE STUDY IN COMPOSITION II 2.0
Restricted to majors in Theory/Composition.
Prerequisites: H 1016 341, majors only.

H 1016 401
MUSIC COMPOSITION 2.0
Practical exploration of the various trends in the 20th century composition.
Prerequisite: H 1016 202.

H 1016 405
SELECTED TOPICS IN THEORETICAL STUDIES 1.0
Research and discussion of selected topics in theoretical studies focusing on stylistic and analytical problems. To be offered as short term courses. May be repeated for credit.
Prerequisite: H 1016 304.

H 1016 412
ELECTRONIC MUSIC COMPOSITION 3.0
Exploration of electronic music techniques; practical experience in both concrete and synthesizer music.
Prerequisite: H 1016 202.

H 1016 443
PRIVATE STUDY IN COMPOSITION III 2.0
Restricted to majors in Theory/Composition. Special fee.

H 1016 444
PRIVATE STUDY IN COMPOSITION IV 2.0
Restricted to majors in Theory/Composition.
Prerequisite: H 1016 443

H 1016 460
MANUSCRIPT PREPARATION
Study of methods of manuscript preparation, copying techniques and practical problems involved in preparing commercial scores for recording, film and background playing.
Prerequisites: Undergraduate theory; knowledge of notation.

H 1016 499
INDEPENDENT STUDY IN
MUSIC THEORY/COMPOSITION 1.0–4.0
Project and/or study planned with sponsoring faculty member.
Prerequisite: H 1016 202.

H 1095 105
PIANO IMPROVISATION FOR THE MUSIC THERAPIST 1.0
Improvisation including basic Nordoff-Robbins techniques.
Prerequisite: H 1004 3104 or its final examination.

H 1095 106
PIANO ACCOMPANYING TECHNIQUES
FOR THE MUSIC THERAPIST 1.0
Continuation of H 1095 3105 and completion of songs.
Prerequisite: H 1095 3105.

H 1095 208
RECREATIONAL INSTRUMENTS
FOR THE MUSIC READER 2.0
Elementary playing, accompanying, and teaching skills on accordion, popular and church organ, recorder, tonette, autoharp, ukulele, and harmonica.
Prerequisite: Permission of instructor.

H 1095 260
METHODS AND MATERIALS IN MUSIC THERAPY 2.0
A variety of music activities and how to adapt them for music therapy settings; leadership techniques; simple instruments used in therapy.
Prerequisites: H 1095 261 and 262.

H 1095 261
THERAPY AND OBSERVATION SKILLS
FOR MUSIC THERAPY 2.0
Observing, measuring and recording behavior in a music therapy setting and other aspects of planning for music therapy sessions as well as observing music therapy sessions.
Prerequisites: H 1095 160, instructor's permission.

H 1095 262
MUSIC THERAPY PRACTICUM I 1.0
Improvement of the functioning of a client or group of clients with physical or mental disabilities through the use of music therapy. Discussion of the clients and their progress and other aspects of clinical work.
Prerequisites: H 1095 160, 261.

H 1095 263
MUSIC THERAPY PRACTICUM II 1.0
Continuation of H 1095 262.

H 1095 361
MUSIC THERAPY PRACTICUM III 1.0
Continuation of H 1095 263.

H 1095 362
MUSIC THERAPY PRACTICUM IV 1.0
Continuation of H 1095 361.

H 1095 363
MUSIC THERAPY PRACTICUM V 1.0
Continuation of H 1095 362.

H 1095 364
MUSIC THERAPY PRACTICUM VI 1.0
Continuation of H 1095 363.

H 1095 400
MUSIC THERAPY TRAINING GROUP 1.5
Expression and exploration of feelings through use of creative media. Particular attention to process so that experience may be generalized and subsequently used with client groups. Offered on a pass/fail basis only.
Prerequisite: Permission of instructor.

H 1095 402
GUIDED IMAGERY AND MUSIC (GIM) 1.5
Introduction to the facets of Guided Imagery and Music. Theory and process of the technique will be explored verbally and experientially. Is equivalent (with possible additional requirements) to Phase I GIM Training, sponsored by IMI Training Seminars, Baltimore, Maryland.
Prerequisites: Open to juniors and seniors only; permission of instructor required.

H 1095 461
MUSIC THERAPY WITH CHILDREN 3.0
Ways in which music and the therapist may be used to influence the behavior of children, the mentally retarded and the physically disabled.
Prerequisite: Senior standing in Music Therapy.

H 1095 462
MUSIC THERAPY WITH ADULTS 3.0
Ways in which music therapy may be used in working with adult psychiatric patients, addictions, offenders, and geriatrics; setting up a music therapy program.
Prerequisite: Senior standing in Music Therapy.

H 1095 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
Emotional correlates of the musical experience are explored through research findings, psychological testing and inquiry, and philosophy. The implications of current theories applied to practice in music therapy, education and performance are discussed. This course is cross-listed with T 2001 463.

H 1095 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
The basic literature concerning psychological research in music is reviewed, with emphasis on experimental research techniques and interpretation of data. The implications of research for music therapy, education, and performance are discussed. This course is cross-listed with T 2001 464.

H 1095 465
INTERNSHIP IN MUSIC THERAPY 1.0
Six months clinical training as a music therapy intern in a training program approved by the National Association for Music Therapy.
Prerequisite: Completion of all music therapy course work leading to a baccalaureate degree or equivalent.

H 1095 499
INDEPENDENT STUDY IN MUSIC THERAPY 0.5–4.0
Project and/or study planned with sponsoring faculty member.

H 1099 450
INTRODUCTION TO PERFORMING ARTS MANAGEMENT I 3.0
Structures of performing arts organizations in the U.S.
Prerequisites: 9 semester hours in art appreciation or applied work, or demonstrated interest in the arts or permission of instructor or department.

H 1099 451
INTRODUCTION TO PERFORMING ARTS MANAGEMENT II 3.0
Problems and theories of arts management for performing groups in the U.S.; marketing, production, fund-raising and other aspects of operation.
Prerequisite: H 1099 450 or instructor's permission.

H 1099 460
INTERNSHIP IN PERFORMING ARTS MANAGEMENT I 4.0
Field work, 2 days per week (or the equivalent) in a professional situation. On-the-job training in day-to-day operations of a performing arts organization. Students will participate in all facets of production, observe decision-making activities. Registrants must drive and provide own transportation.
Prerequisites: H 1009 450, 451; permission of sponsor; permission of Dept. Chairperson; 1 semester of psychology.

H 1099 461
INTERNSHIP IN PERFORMING ARTS MANAGEMENT II 4.0
Continuation of Internship in Performing Arts Management I; 2 days per week or equivalent in field work with an arts organization devoted to performance. Registrants must drive and provide own transportation.
Prerequisites: H 1009 460; permission of sponsor; permission of department.

H 1099 462
INTERNSHIP IN PERFORMING ARTS MANAGEMENT III 1.0–15.0
Full semester's internship in a performing arts organization with time allocation mutually decided by the sponsor and the student's major department. Interns must be able to drive and to provide own transportation.
Prerequisites: H 1099 461; permission of sponsor; permission of major department.

H 1099 470
EXTERNSHIP IN PERFORMING ARTS MANAGEMENT 1.0–15.0
Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.
Prerequisites: H 1099 461; two semesters of internship; permission of sponsor(s) and major department.

H 1099 499
INDEPENDENT STUDY IN ARTS MANAGEMENT 1.0–4.0
Special project in arts management.
Prerequisite: Permission of instructor.



Philosophy and Religion

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES
Chairperson: Michael S. Kogan

Taking courses in philosophy and religious studies means gaining a greater ability to think clearly and independently about the central issues of human life. These studies present the occasion and the means to reflect critically on basic values and beliefs. The courses complement other major programs by enhancing awareness of the philosophical, ethical and religious elements and implications of other academic studies.

Both areas can be taken as a major leading to a Bachelor of Arts degree. They are also good second majors to enrich a liberal arts interest. A minor is offered in both programs. Each major is excellent preparation for later graduate and professional work.

Philosophy Major

Required Courses

	Semester Hours
Fields of Philosophy (even course numbers)	15
History and Movements (odd course numbers)	15
1509 331 Ancient Philosophy	3
1509 333 Descartes to Kant	3
Electives in History and Movements	9
Seminar in Philosophy (select one)	3

Philosophy Minor

Required Courses (18 semester hours)

	Semester Hours
Fields of Philosophy (even course numbers)*	6–12
History and Movements in Philosophy (odd course numbers)*	6–12

*Consult with a departmental advisor for the choice of courses.

Religious Studies Major

Required Courses

1599 100 Religions of the World	3
1599 401, 403 Philosophical Backgrounds of Western Religion I, II	6

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21

Seminar in Religious Studies (select one) 3

Religious Studies Minor

Required Courses

1599 101 Introduction to Religion 3
1599 460, 462, 465, 467 Seminars in Religious Studies 3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

R 1509 100
INTRODUCTION TO PHILOSOPHY 3.0
The nature, scope, methods, basic problems and major types of philosophy.

R 1509 102
ETHICS 3.0
The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories.

R 1509 104
SOCIAL AND POLITICAL PHILOSOPHY 3.0
The nature of society and the state, their relation to each other and to the individual, and an evaluation of some main political and social ideals.

R 1509 106
LOGIC 3.0
The forms of deductive and inductive argument in traditional logic; the fundamentals of modern formal logic.

R 1509 202
ETHICS AND BUSINESS 3.0
A study of the meaning of morality in modern world of business. Course contains balance of theory and practice as it examines behavior of business against background of conflicting ethical theory.

R 1509 204
MORALS AND MEDICINE 3.0
A study of moral decision making in regard to specific moral problems arising in such areas of contemporary medical research and practice as experimentation on human subjects, euthanasia, abortion, information rights of patients, and eugenic sterilization.

R 1509 208
PHILOSOPHY OF SEX 3.0
An examination of philosophical interpretations of human sexuality.

R 1509 231
AMERICAN PHILOSOPHY 3.0
The major American philosophers and philosophical movements, with emphasis on Peirce, James, Royce, and Dewey.

R 1509 233
CONTEMPORARY PHILOSOPHERS 3.0
the major movements in contemporary philosophy, studied through writings of leading exponents.

R 1509 235
MARX AND MARISM 3.0
The philosophy of Marx with special attention to his Hegelian background, his concept of man, and the genesis of his social and political philosophy. Engels, Lenin and contemporary existentialist marxism are considered briefly.

R 1509 237
ORIENTAL PHILOSOPHY 3.0
Philosophical interpretations of experience and reality in representative movements of eastern thought.

R 1509 239
EXISTENTIALISM 3.0
The major themes and concepts of existentialism in selected writings of the existentialist philosophers.

R 1509 260
PHILOSOPHIES OF ART 3.0
The major philosophies of art in the history of western thought. The conceptual network of ideas of the thinker in question will be delineated, and connections shown between the thinker and the philosophical and artistic themes of that period.

R 1509 262
PHILOSOPHY OF RELIGION 3.0
The nature and shape of religious experience, criteria for meaning within religious thought and language. Metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.

R 1509 264
CRITICAL REASONING AND ARGUMENT 3.0
An intermediary level course, concentration upon argumentation and rhetorical devices as they actually function in every day conversation, philosophical discussion, forensic debate, etc. Arguments will be examined with an eye to penetrating purely formal structure and discovering the underlying dynamics which contribute to cogency in a given context.

R 1509 290, 291
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0 each
Selected study of major fields in philosophy. Topics announced each semester.

R 1509 292, 293
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0 each
Selected study of major fields in philosophy. Topics announced each semester.

R 1509 295, 297
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0 each
Topics announced each semester.

R 1509 310
THEORIES OF KNOWLEDGE AND EXPERIENCE 3.0
The major issues and theories concerning the relationship between knowledge, experience and reality.

R 1509 312
METAPHYSICS 3.0
An examination of major philosophical theories concerning the nature of reality.

R 1509 316
PHILOSOPHY OF LAW 3.0
An introduction to the philosophical issues of jurisprudence. Close attention is given to the status and nature of law, the concept of equality and the limits of law.

R 1509 318
CONTEMPORARY AESTHETICS 3.0
Recent investigations into the function of art in human experience; the nature of aesthetic meaning, value, creation and enjoyment.

R 1509 331
ANCIENT PHILOSOPHY 3.0
The major philosophical systems and movements from the pre-Socratics to Plotinus, with special emphasis on Plato and Aristotle.

R 1509 333
DESCARTES TO KANT 3.0
The major philosophical systems and movements from the Renaissance to Kant.

R 1509 335
NINETEENTH CENTURY PHILOSOPHY 3.0
A study of the major philosophical figures and movements of the nineteenth century, with special emphasis on Hegel and the Hegelian tradition.

R 1509 390, 392
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0 each
Selected study of major fields in philosophy. Topics announced each semester.

R 1509 395, 397
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0 each
Topics announced each semester.

R 1509 424, 426, 427, 429
SEMINAR IN PHILOSOPHY 3.0 each
Cooperative research seminars in major movements, problems, philosophers or works. Topics announced each semester.

R 1509 444, 446, 447, 449
INDEPENDENT STUDY IN PHILOSOPHY 3.0–12.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

R 1599 100
RELIGIONS OF THE WORLD 3.0
The major religious traditions, with emphasis on basic beliefs and on the nature and diversity of religious awareness.

R 1599 101
INTRODUCTION TO RELIGION 3.0
An inquiry into religious questions and expressions, their implications, and their critical appreciation and assessment.

R 1599 103
RELIGION AND MORAL ISSUES 3.0
Ethical issues as discussed by representative thinkers of the major religious traditions.

R 1599 200
OLD TESTAMENT: GENESIS TO JOSHUA 3.0
The evolution of the ancient Hebrew world view as developed in the Biblical books covering the early period of Israelite history. The course includes a close reading of the books of Genesis, Exodus and Numbers, comparison with contemporary Middle Eastern religious texts and study of the biblical story from the creation through the career of Moses (circa 1250 B.C.).

R 1599 202
OLD TESTAMENT: JOSHUA TO DANIEL 3.0
The history and theology of Israelite religion as seen in fifteen biblical books covering the middle and later periods of ancient Hebrew thought (1250–165 B.C.).

R 1599 204
NEW TESTAMENT: JESUS AND THE GOSPELS 3.0
The story of Jesus of Nazareth as told in the gospels of Mark and Matthew. The course explores Old Testament backgrounds, Jesus' place in the Jewish religious context of first century Israel, the question of the historical Jesus and the origins of and relationships between the various gospel traditions.

R 1599 206
NEW TESTAMENT: PAUL AND THE EARLY CHURCH 3.0
A close study of Luke–Acts, John, selected letters of Paul and other later epistles. The course explores the development of the theology and institutions of the early church as revealed in New Testament documents of the first and early second centuries.

R 1599 210
RELIGIONS OF THE NORTH AMERICAN INDIANS 3.0
An introduction to the religious traditions and spirituality of the American Indian peoples.

R 1599 212
ORIENTAL RELIGIONS 3.0
The cultural and theological bases for the faith and practice of major eastern religions—Buddhism, Confucianism, Hinduism, Taoism.

R 1599 221
RELIGION AND CULTURE 3.0
The interrelation of religion and culture in the formulation of human values and views, life styles and institutions.

R 1599 223
RELIGION IN AMERICA 3.0
the growth and development of various religious movements—Protestant, Catholic, Jewish, Muslim, and sectarian minorities—from colonial times to the present.

R 1599 225
RELIGION AND SOCIAL CHANGE 3.0
The impact of economic, social and political movements on religious belief and the ways in which religion has both furthered and impeded social development.

R 1599 231
ORIENTAL PHILOSOPHY 3.0
Philosophical interpretations of experience and reality in representative movements of eastern thought.

R 1599 263
RELIGION AND PSYCHOLOGY I 3.0
The views of faith and the religious person reached by such major psychological approaches as the Freudian, neo-Freudian, analytic-ego, existential and Jungian. The implications of such psychology for Jewish, Catholic, and Protestant believers and religious thinkers.

R 1599 265
RELIGION AND PSYCHOLOGY II 3.0
Selected psychological investigations and/or theories of religious phenomena; the implications for constructive theology and positive religious response.

R 1599 267
WOMEN IN RELIGION 3.0
Focuses on women's own experience in religions and the various perspectives of women held by both Eastern and Western religious traditions. The course deals with questions such as the nature of women, patriarchy and religion, and roles of women in religions.

R 1599 269
DEATH AND DYING: RELIGIOUS PERSPECTIVES 3.0
This course is designed to give the student opportunity to study cross cultural religious and philosophical attitudes toward death and the procedures surrounding death. Material for the course will cover rituals of death and dying in both Eastern and Western religious traditions as well as "secular" rituals associated with death.

R 1599 273
THE HOLOCAUST: RELIGIOUS PERSPECTIVES 3.0
A study of Nazi extermination of 6,000,000 Jews during World War II and the moral and religious issues raised by this event.

R 1599 300
CLASSICS OF WESTERN RELIGIOUS THOUGHT 3.0
Selected works of significant theologians of the Western tradition on issues such as the nature of God, Christology, Soteriology, Ecclesiology, Theodicy, etc.

R 1599 350
SELECTED STUDY IN WORLD RELIGIONS 3.0
Topics announced each semester.

R 1599 352
SELECTED STUDY IN RELIGION 3.0
Topics announced each semester.

R 1599 355
SELECTED STUDY IN RELIGION AND CULTURE 3.0
Topics announced each semester.

R 1599 357
SELECTED STUDY IN RELIGIOUS THOUGHT 3.0
Topics announced each semester.

R 1599 401
PHILOSOPHICAL BACKGROUNDS OF
WESTERN RELIGION I 3.0
The interrelationship of western religion with philosophy from the pre-Socratics through the Middle Ages. The emergence of classical fields of philosophy.

R 1599 403
PHILOSOPHICAL BACKGROUNDS OF
WESTERN RELIGION II 3.0
The interrelationship of western religion with philosophy in the Renaissance, enlightenment and modern period. The emergence of the autonomous spirit of criticism.

R 1599 460
SEMINAR IN WORLD RELIGIONS 3.0
Cooperative research seminars in major movements, problems, theologicans or works. Topic announced each semester.

R 1599 462
SEMINAR IN RELIGION 3.0
Cooperative research seminar in major movements, problems, theologians.

R 1599 465
SEMINAR IN RELIGION AND CULTURE 3.0
Cooperative research seminars in major movements, problems, theologians. Topics announced each semester.

R 1599 467
SEMINAR IN RELIGIOUS THOUGHT 3.0
Cooperative research seminars in major movements, problems, theologians or works. Topics announced each semester.

R 1599 490
INDEPENDENT STUDY IN RELIGION 3.0–12.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

R 1599 492, 495, 497
INDEPENDENT STUDY IN RELIGION 3.0–12.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

Physical Education, Recreation and Leisure Studies

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Joan Schleede

Physical Education Program

Physical fitness is an essential element in each person's life. Those who graduate with the Bachelor of Science degree in Physical Education may choose either teacher education or adult fitness, a non-teaching concentration. Students concentrate within the major in a variety of areas which equip them for employment in schools, agencies or corporations where fitness is recognized as essential. Physical Education gives students a broad range of activities which develop self-expression and skills for leisure, as well as a high level of physical fitness.

Physical Education (Teacher Education)

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog.

The Physical Education department has specific requirements for admission to the Teacher Education program. Contact the Department for details.

Minimum grade point average, 2.67 in physical education specialization courses.

Minimum 15 semester hours in specializations by the end of sophomore year. Transfer students need a minimum of 6 semester hours in physical education courses at Montclair State College.

Semester Hours

Required Theory Courses 23

0835 100	Orientation to the Physical Education Profession	1
0835 150	Principles and Practices of Emergency Care	3
0835 220	Physiology of Exercise	3
0835 221	Kinesiology	3
0835 222	Basic Motor Learning	3
0835 244	Physical Education Field Experience	1
0835 351	Adapted Physical Education	3
0835 352	Development and Philosophy of Physical Education (Juniors and seniors only)	3
0835 356	Management of Physical Education, Athletic, and Fitness Programs	3

Activity Courses 14

Collateral Courses:

0837 101	Health for Personal Living	3
1905 107	College Chemistry I	2
1905 108	College Chemistry II	2
0401 240	Mammalian Anatomy and Physiology I	3
0401 241	Mammalian Anatomy and Physiology II	3
0835 355	Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Specializations Within the Major

Students are required to select a specialization from one of the following. Each requires 13 semester hours of course work.

Individualized Fitness

Required Courses

0835 255	Practicum in Selected Physical Education Programs	2
0835 340	Fitness and the Aging Process	3
0835 375	Foundations and Practices in Cardiac Rehabilitation	3

Select 2 semester hours from among the following 4: 2

0879 251	Aerobic Activities	1
0879 257	Weight Training and Conditioning	1
0879 263	Jogging	1
0879 278	Yoga	1

Departmental Electives by Advisement 3

Coaching

Required Courses

0835 226	Coaching Principles and Problems	3
0835 227	Social Problems in Sport	3
OR		
0837 353	Psychology of Sport	3
0835 255	Practicum in Selected Physical Education Programs	2

Select 1 from among:

0835 301	Coaching Field Hockey	2
0835 303	Coaching Basketball	2
0835 304	Coaching Softball	2
0835 306	Coaching Baseball	2
0835 308	Coaching Football	2
0835 309	Coaching Soccer	2
0835 310	Coaching Swimming and Diving	2
0835 317	Coaching Volleyball	2
0835 332	Coaching Wrestling	2
0835 333	Coaching Track and Field	2

Departmental Electives by Advisement 3

Athletic Training

Required Courses

Semester Hours

0835 223	Basic Prevention and Care of Athletic Injuries	3
0835 323	Advanced Prevention and Care of Athletic Injuries	3
0835 379	Internship in Athletic Training	4

Departmental Electives by Advisement 3

Individual Contract

Individualized 13 semester hour program prepared in consultation with an advisor and approved by the department chairperson if existing specialization areas do not meet the student's needs. *This specialization must be approved prior to any course selection.*

Adapted Physical Education

0835 255 Practicum in Selected Physical Education Programs ... 2
0835 362 Physical Activities for the Developmentally Disabled and Mentally Ill ... 3
0835 363 Physical Activities for the Sensory and Physically Disabled ... 3

Department Electives by Advisement ... 5

Concentration Within the Major

Adult Fitness
(Non-Teaching Certification)

Required Courses ... 23

0835 100 Orientation to the Physical Education Profession ... 1
0835 150 Principles and Practices of Emergency Care ... 3
0835 220 Physiology of Exercise ... 3
0835 221 Kinesiology ... 3
0835 222 Basic Motor Learning ... 3
0835 246 Field Experience in Adult Fitness ... 1
0835 351 Adapted Physical Education ... 3
0835 352 Development, and Philosophy of Physical Education ... 3
0835 356 Management of Physical Education, Athletic, and Fitness Programs ... 3



Activity Courses Required ... 11

Theory Specialization Core ... 28
0835 340 Fitness and the Aging Process ... 3
0835 375 Foundations and Practices in Cardiac Rehabilitation ... 3
0835 376 Seminar in Fitness Programming ... 2
0509 340 Introduction to Marketing ... 3
0838 101 Contemporary Business ... 3
0842 331 Group Dynamics ... 3
1306 182 Nutrition ... 3
Select One
0835 380 Internship in Physical Education ... 8
OR
0835 381 Cooperative Education in Physical Education ... 8

Collateral Courses ... 16

0837 101 Health for Personal Living ... 3
1905 107 College Chemistry I ... 2
1905 108 College Chemistry II ... 2
Note: May select 1905 120, 121 General Chemistry I, II as alternative ... 8
0401 240 Mammalian Anatomy and Physiology I ... 3
0401 241 Mammalian Anatomy and Physiology II ... 3
0835 355 Measurement and Evaluation in Physical Education (Juniors and seniors only) ... 3

Physical Education and Health Dual Teacher Certification Requirements

Required Courses

Physical Education Theory ... 23
(same as for Physical Education)
Activity ... 14
(Same as for Physical Education)
Health (Health for Personal Living is included) ... 22
0837 213 Perspectives on Drugs ... 3
0837 290 Human Sexuality ... 3
0837 401 Teaching of Health ... 4
0837 411 School Health and Community Services ... 3
Select One
0837 210 Consumer Health ... 3
0837 220 Mental Health ... 3
0837 240 Foundations of Environmental Health ... 3
Select Two
0837 307 The Study of Human Disease ... 3
0837 315 Community Health ... 3
OR
any other 0837 Health Profession course with advisement.

Collateral Courses ... 16

0837 101 Health for Personal Living ... 3
1905 107 College Chemistry I ... 2
1905 108 College Chemistry II ... 2
0401 240 Mammalian Anatomy and Physiology I ... 3
0401 241 Mammalian Anatomy and Physiology II ... 3
0835 355 Measurement and Evaluation in Physical Education (Juniors and seniors only) ... 3

Professional Sequence for Teacher Education

The sequence is the same as for Physical Education Major *except* both Health Teaching and Physical Education Teaching are required in the supervised student teaching.

Recreation and Leisure Studies Program

As more leisure time becomes available, the opportunity for leadership in both the public and private areas of recreation and leisure enterprises grows. A student who enrolls in the department's program can earn a Bachelor of Science degree in Commercial Recreation and Tourism, Therapeutic Recreation, Outdoor Recreation and Interpretive Services or Community Recreation and Leisure Services. Each of these areas of study is designed to prepare the student for either immediate entry into the profession or graduate study. Emphasis is placed on developing leadership skills for supervisory and management levels.

Courses are also open as electives for those majoring in other fields. Here the emphasis is placed on the role of recreation and leisure in life-planning and community service.

Recreation Professions Major

Required Courses

2103 123	Leadership Techniques in Recreation and Leisure Services	3
2103 124	Introduction to Recreation and Leisure Services	2
2103 225	Program Planning in Recreation and Leisure	3
2103 228	Recreation for Special Populations	3
2103 312	Budget and Finance	3
2103 350	Design, Maintenance, and Utilization of Recreation, Tourism and Recreation Facilities	3
2103 322	History and Philosophy of Leisure, Play and Recreation	3
2103 334	Research Methods in Recreation and Leisure Services	4
2103 430	Management of Recreation and Leisure Services	4
*2103 437	Senior Seminar	2
**2103 489	Internship	12

*2.45 GPA needed
**Satisfactory completion of Senior Seminar

Recreation students are required to select an 18 semester hour concentration in their major, and include 6 semester hours of Psychology under General Education.

Concentrations Within the Major

Commercial Recreation and Tourism

Required Courses

		Semester Hours
2103 311	Special Events Planning and Promotion	3
2103 340	Introduction to Commercial Recreation and Tourism	3
2103 342	Delivery of Commercial Recreation and Tourism Services	3
2103 346	Tourism and Commercial Recreation, Planning, Development, and Analysis	3
Two Business Electives selected from approved list		6

Therapeutic Recreation

Required Courses

		Semester Hours
2103 271	Clinical Experiences in Therapeutic Recreation (Taken three times for 1 semester hour each)	3
2103 370	Introduction to Therapeutic Recreation	3
2103 372	Recreation and Rehabilitation Services	3
2103 377	Programming and Supervision in Therapeutic Recreation	3
Six semester hours by advisement		6

Note: Students in this concentration are required to take Mammalian Anatomy and Physiology I and II as part of their curriculum.

Outdoor Recreation and Interpretive Services

Required Courses

		Semester Hours
2103 360	Outdoor Recreation Resource Management	3
2103 361	Implementation of Outdoor Recreation Programs and Interpretive Services	3
0835 224	Camping and Outdoor Education	2
Select two of the three skill courses for a total of 4 hours.		
2103 105	Outdoor Recreation Skills	2
2103 107	Winter Outdoor Recreation Skills	2
2103 109	Spring Outdoor Recreation Skills	2
Courses By Advisement		6

Community Recreation and Leisure Services

Community Recreation and Leisure Services: Students in this area design their program with the help of their faculty adviser. A sample of program might be as follows: School-Community Recreation; Marketing Techniques in Recreation and Leisure Services; Public Finance; Management and Maintenance of Recreation and Park Areas and Facilities. Additional semester hours are selected in consultation with adviser.

Courses of Instruction

Physical Education

8 0835 100
ORIENTATION TO THE PHYSICAL EDUCATION PROFESSION 1.0
A professional orientation and an introduction to the breadth of the field of physical education in schools, industry and community agencies.

8 0835 101
FIELD HOCKEY 1.0
The purpose of the course is to identify the basic skills, strategy and techniques of team play. Emphasis will be placed on individual skill development, team techniques, strategies and the application of these in game situation.

8 0835 102
SOCCER 1.0
The history, development and present status of the sport. Basic skills, game strategy, rules, terminology and specifics concerning class organization, safety and evaluation will be presented.

8 0835 103
BASKETBALL 1.0
The basic elements and concepts of offensive and defensive strategy and the rules of basketball will be included.

8 0835 104
SOFTBALL 1.0
Skills, techniques, rules and concepts of team play and strategy essential to this sport and playing the game.

8 0835 106
BASEBALL 1.0
Methods, theory, skill testing and class organization for effective teaching of baseball.

8 0835 108
FOOTBALL 1.0
The history, development and present status of the sport, basic skills and game strategy, rules and specific techniques concerning class organization, safety and evaluation.

8 0835 110
AQUATICS 1.0
For those with a minimum amount of aquatic knowledge and skill. Swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety precautions.

8 0835 111
LIFESAVING 1.0
Developing individual skill and confidence in lifesaving and water safety skills. Open to undergraduate women and men.
Prerequisites: (1) Perform standing front dive, (2) swim 440 yds. continuously using various strokes, (3) dive from surface to minimum depth of six feet and swim 15 feet underwater, (4) tread water one minute.

8 0835 112
WATER SAFETY INSTRUCTION 1.0
This course follows the standards and procedures for certification by the American Red Cross.
Prerequisite: A current A.R.C. senior lifesaving card.

8 0835 113
MEN'S GYMNASTICS AND TUMBLING 2.0
This course is designed to introduce methods and materials in gymnastics and tumbling for the major students. Emphasis will be placed on the organization of gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics and tumbling also will be emphasized.

8 0835 114
WOMEN'S GYMNASTICS AND TUMBLING I 2.0
Developing skills on the apparatus; demonstrating an understanding of skills for elementary through high school. Safety measures related to equipment and spotting. Students perform progression for basic skills on all equipment.

8 0835 115
LACROSSE 1.0
The history, development, and present status of the sport will be studied. The student will develop basic skills and learn game strategy, rules and specific techniques concerning class organization, safety and evaluation.

8 0835 116
VOLLEYBALL 1.0
The student is provided with the history, development, and present status of the sport; analysis of basic skills, game strategy, rules, terminology, plus specifics concerning class organization, safety and evaluation.

8 0835 120
BOWLING 1.0
The history, rules, techniques, strategies, terminology and rules are discussed; and students attend classes at bowling alleys for practical experience.

8 0835 122
GOLF 1.0
To permit students to attain the minimum skill necessary for understanding the fundamentals of this sport.

8 0835 124
BADMINTON 1.0
A comprehensive analysis of the techniques and skills of the sport; current trends, rules, terminology, equipment and game strategy.

8 0835 126
ARCHERY 1.0
The development and present status of archery; basic skills, tournament strategy and rules.

8 0835 128
FENCING 1.0
This course will introduce the physical education major to the fundamental skills, techniques, strategies, and rules of foil fencing. Included are methods for implementing a fencing program in physical education classes.

8 0835 130
TENNIS 1.0
This course will introduce the physical education major to the fundamental skills, techniques, strategy, and rules of tennis and explore ways to implement tennis instruction in a school situation.

8 0835 131
FITNESS ACTIVITIES 2.0
A comprehensive course provided for knowledge needed for developmental programming of personalized fitness activities utilizing all modes of fitness training.

8 0835 132
WRESTLING 1.0
The history, development and present status of wrestling; basic skills, strategy, rules and specific techniques concerning class organization safety and evaluation.

8 0835 134
TRACK AND FIELD 1.0
Techniques for performance and analysis of all track and field activity, including cross-country.

8 0835 141
AMERICAN FOLK AND SQUARE DANCE 1.0
Skills and teaching methods in folk and square dance. The student will also experience calling a square dance.

8 0835 142
EUROPEAN FOLK DANCE 1.0
This course will acquaint the student with a variety of European folk dances.

8 0835 143
SOCIAL DANCE 1.0
The fundamentals of social dance are presented to the student.

8 0835 150
PRINCIPLES AND PRACTICES OF EMERGENCY CARE 3.0
Provides for study of emergency care management. Provides knowledge and skills for teaching principles and practices of emergency care in a school or adult fitness setting.

8 0835 220
PHYSIOLOGY OF EXERCISE 3.0
The physiological effects of activity upon the human organism. The reaction of exercises of speed, strength and endurance upon the muscular and circulo-respiratory systems.
Prerequisites: W 0401 240, 241.

8 0835 221
KINESIOLOGY 3.0
An examination of the biomechanical principles of human movement and basic techniques of biomechanical analysts, based on the functional anatomy of the skeletal, muscular, and nervous systems.
Prerequisites: W 0401 240, 241.

8 0835 222
BASIC MOTOR LEARNING 3.0
This course provides students with knowledge of the theoretical basis of human learning and performance in motor activity.
Prerequisites: W 0401 240, 241.

8 0835 223
BASIC PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
An introductory course designed to provide the student with information about those aspects of sports medicine which are necessary to the safe conduct of sports.

8 0835 224
CAMPING AND OUTDOOR EDUCATION 2.0
This dual course introduces the student to outdoor education and camping. A basic view of the outdoor education field, especially as it relates to elementary and secondary education. Introduction to recreational (individual and small group), and organized camp.

8 0835 226
COACHING PRINCIPLES AND PROBLEMS 3.0
This course is designed to present an overview of the principles and problems pertaining to coaching on the high school and college levels.

8 0835 227
SOCIAL PROBLEMS IN SPORTS 3.0
Designed to analyze a number of important and controversial issues of sports in American society.

8 0835 230
MODERN DANCE IN PHYSICAL EDUCATION 1.0
This course is designed to provide the physical education student with the skills and knowledge to teach a basic unit in modern dance in the schools.

8 0835 235
MOVEMENT EXPERIENCES IN THE ELEMENTARY SCHOOL 2.0
A comprehensive activity course designed to present theory and practical application of movement experiences and non-sport activities in physical education in the elementary school.

8 0835 240
GYMNASTICS FOR ELEMENTARY SCHOOL 2.0
The methods and materials in gymnastics for elementary schools through a sensorimotor approach to learning and performance.
Prerequisite: 8 0835 113 or 114.

8 0835 244
PHYSICAL EDUCATION FIELD EXPERIENCE 1.0
This course will provide an opportunity for physical education majors interested in teacher education to examine the nature and function of physical education programs in a public school setting.

8 0835 246
FIELD EXPERIENCE IN ADULT FITNESS 1.0
This course permits physical education majors interested in adult fitness an opportunity to observe and evaluate a variety of adult fitness programs.

8 0835 248
TEACHING GYMNASTICS IN THE SCHOOLS 2.0
An understanding of the techniques of the teaching of gymnastics in physical education programs within the school setting will be provided.
Prerequisites: 8 0835 113 or 114.

8 0835 255
PRACTICUM IN SELECTED PHYSICAL EDUCATION PROGRAMS 2.0
This field based course affords students in the physical education teacher education program an opportunity to apply theoretical knowledge in a practical situation in schools or agencies in the area of coaching, individualized fitness or adapted physical education.

8 0835 301
COACHING FIELD HOCKEY 2.0
Concepts and organizational procedures for coaching field hockey skills, offensive and defensive strategies and rules.

8 0835 303
COACHING BASKETBALL 2.0
The course is designed to provide students with an introduction to the art of coaching the game of basketball. Students have an opportunity to explore various contemporary styles and aspects of team play. Teaching, beginning with individual player development and progressing to team development, will be covered.

8 0835 304
COACHING SOFTBALL 2.0
Concepts and organizational procedures for coaching softball. Skills, offensive and defensive strategies and rules.

8 0835 306
COACHING BASEBALL 2.0
Individual skills and team techniques of coaching baseball administration and organization of practice sessions for effective learning.

8 0835 308
COACHING FOOTBALL 2.0
Techniques and methods of coaching football with emphasis on team play. Offensive and defensive methods for running, passing and kicking game. Complete organization of a football program is presented.

8 0835 309
COACHING SOCCER 2.0
This course is designed to provide students with an understanding of the theory and techniques of coaching soccer.

8 0835 310
COACHING SWIMMING AND DIVING 2.0
Practical knowledge of coaching swimming and diving. Coaching theory, the perfecting of skills and conditioning procedures.

8 0835 323
ADVANCED PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
This advanced level course integrates the knowledge of anatomy, physiology, biomechanics, nutrition, conditioning, and first aid. This course provides an understanding of the prevention, care, and rehabilitation of athletic injuries. Theoretical and practical aspects of the field will be presented through lecture and laboratory sessions in order to develop a broad background concerning the health care and medical management of athletic injuries. Athletic training is presented as a professional opportunity as well as an essential aspect in the education of physical educators and coaches.
Prerequisite: 8 0835 223.

8 0835 332
COACHING WRESTLING 2.0
Techniques and methods of coaching wrestling. Emphasis on developing programs. Mat tactics and strategy.

8 0835 333
COACHING TRACK AND FIELD 2.0
Integrating philosophy, psychology, principles and techniques of track and field activities with actual practice. For men and women with appropriate concentrations as well as a common core of activities.

8 0835 340
FITNESS AND THE AGING PROCESS 3.0
The anatomic, physiologic and social changes experienced by the older adult as he/she ages. The students will learn the bases for selection of appropriate activities and techniques for communicating with this specialized population. Field experiences involving older adults in fitness settings will be included in this course.
Prerequisites: 8 0835 220, W 0401 240, 241 or permission of instructor.

8 0835 345
AQUATIC MANAGEMENT 3.0
Designed to provide skills and knowledge in the area of aquatic management which will enable the student to develop appropriate programs at swim clubs, community pools, camps and health clubs.

8 0835 351
ADAPTED PHYSICAL EDUCATION 3.0
This is a lecture and practicum course covering the introductory techniques for conducting a physical education program to meet the needs of the developmentally disabled. Each student is required to spend a minimum of 15 hours of laboratory experience in schools, agencies, and/or institutions.
Prerequisites: W 0401 240, 241.

8 0835 352
DEVELOPMENT AND PHILOSOPHY OF PHYSICAL EDUCATION 3.0
The history and development of physical education are traced from primitive to modern times. Influences which contributed to the modern philosophy of physical education are identified. May not be taken until junior year.

8 0835 353
PSYCHOLOGY OF SPORT 3.0
Psychology related to physical activity on emotional, attitudinal and personality aspects; motivation, cultural and sociological problems of athletes spectator response and deportment.

8 0835 355
MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION 3.0
Tests and measurements specifically concerned with the area of physical education. Tests and measurements as tools for better teaching as well as for research. Open to juniors and seniors only.

8 0835 356
MANAGEMENT OF PHYSICAL EDUCATION ATHLETIC AND FITNESS PROGRAMS 3.0
This course reviews comprehensive information about the administration and management of physical education, athletics and fitness programs. Current trends, practices and support services essential to the development of these programs will be examined. Not for freshmen.

8 0835 357
TEACHING OF PHYSICAL EDUCATION 4.0
Methods of teaching and principles of learning as they apply to growth, development and movement. Urban, inner city, suburban and rural situations and conditions related to learning facilities and equipment.
Prerequisite: Acceptance into Teacher Education program.

8 0835 362
PHYSICAL ACTIVITIES FOR THE DEVELOPMENTALLY DISABLED AND MENTALLY ILL 3.0
The development of physical activities designed to meet the unique needs of the mentally retarded, emotionally disturbed and learning disabled. Etiologies, legislation, motivational procedures and programming strategies will be reviewed. Field work is required.

8 0835 363
PHYSICAL ACTIVITIES FOR THE SENSORY AND PHYSICALLY DISABLED 3.0
The development of awareness of the architectural barriers physical and social difficulties encountered by the sensory and physically disabled, the student will have the opportunity to develop physical activities designed to meet the unique needs fo the visually, auditorily and orthopedically disabled, etiologies, legislation, motivational procedures and programming strategies will be reviewed. Each student is required to complete a practicum.

8 0835 375
FOUNDATIONS AND PRACTICES IN CARDIAC REHABILITATION 3.0
Knowledge and skills related to cardiac rehabilitation which are necessary for working with post-cardiac individuals in the post-hospital continuing exercise program. Students will be expected to demonstrate a high level of competence in all aspects of the course. Field work required.
Prerequisites: 8 0835 220, W 0401 240, 241, instructor's permission.

8 0835 376
SEMINAR IN FITNESS PROGRAMMING 2.0
Specifically designed for the student in the adult fitness concentration to bring together a series of background topics into a seminar experience. The course will discuss practitioner roles, the establishment of criteria for the evaluation of fitness programs in a variety of settings, individual factors which influence participation adherence, and practical considerations which apply to fitness programming.

8 0835 379
INTERNSHIP IN ATHLETIC TRAINING 4.0
Designed for the student interested in becoming certified as a trainee (NATA). Through an internship program the student will be provided the opportunity to apply the background information obtained in both basic and advanced prevention and care of athletic injuries course. The proposed course will also meet the NATA requirement for field experience. This course available to students not completing the student teacher experience only.
Prerequisites: 8 0835 150, 223, 323.

8 0835 380
INTERNSHIP IN PHYSICAL EDUCATION 8.0
Intended only for those students who have tentatively identified a career goal. Experience selected will be closely related to the career aspiration of the student. On-the-job experiences in the areas of organizations and agencies where professional competency will be utilized as related to the career goals of the student. Available to students not completing the student-teacher sequence only.
Prerequisites: Minimum of 105 semester hours completed, 2.25 grade point average.

8 0835 381
COOPERATIVE EDUCATION IN PHYSICAL EDUCATION 4.0–8.0
Integrates academic study with supervised employment outside the formal classroom environment. The co-op term is a semester off campus during which a student, while supervised by a department faculty coordinator, is responsible for completing the terms of a predetermined learning contract. Available to students not completing the student teacher sequence only.
Prerequisites: 60 semester hours completed, 2.45 grade point average, 2.67 major grade point average, or instructor's permission.

8 0835 399
INDEPENDENT STUDY IN PHYSICAL EDUCATION 1.0–6.0
Provides an opportunity to pursue independent study in one of the specialized areas of physical education.

8 0835 444
SEMINAR IN PHYSICAL EDUCATION 1.0
This course permits physical education student teachers an opportunity to discuss and evaluate the experiences they have in a physical education setting while student teaching.
Prerequisites: Accepted into teacher education program, and enrolled concurrently in 1 0829 411, Supervised Student Teaching.

8 0835 492
SELECTED TOPICS IN PHYSICAL EDUCATION 1.0–3.0
A theoretical and practical in-depth study in a current aspect of physical education. Topics will be determined prior to course offering and publicized.

Non-Major Courses

8 0879 200
BEGINNING SWIMMING 1.0
This course is designed for beginning swimmers and those who are not comfortable in the water. The scope of the course will cover a wide variety of swimming strokes and survival techniques.

8 0879 202
BADMINTON 1.0
The history, techniques, strategies, terminology and rules of badminton are discussed.

8 0879 203
GOLF 1.0
This course will deal with the essential information about the selection of equipment and the characteristics of the game of golf including the skills and components of the use of various clubs, rules and courtesies.

8 0879 230
PERSONALIZED FITNESS 3.0
An introductory course in personalized fitness covering theories and techniques of the physiological and psychological components of fitness. Designed for second careers students, this course meets the college requirement in physical education.

8 0879 242
RACQUETBALL 1.0
The origin, development, and present status in the sport of racquetball will be studied. Basic skills, game strategy, and rules will be taught and applied.

8 0879 250
INTERMEDIATE SWIMMING 1.0
This course is designed for men and women who have at least a minimum amount of aquatic knowledge and skill. The scope of the course will cover a wide area of swimming strokes, water stunts, and springboard diving. Organization for teaching groups and safety procedures will also receive emphasis.

8 0879 251
AEROBIC ACTIVITIES 1.0
This course will provide the student with an opportunity to recognize and develop cardiovascular conditioning, endurance and lifetime fitness skills.

8 0879 252
ARCHERY 1.0
Fundamentals and use of archery as a leisure pursuit.

8 0879 253
GYMNASTICS 1.0
Gymnastics and conditioning and development of skills in gymnastic movements.

8 0879 257
WEIGHT TRAINING AND CONDITIONING 1.0
A regimen of physical fitness (conditioning) exercises will be established for the individual student, and assistance will be rendered to help him or her in following this regimen in order to reach his or her maximum physical potential (muscle tone and endurance).

8 0879 258
BEGINNING TENNIS 1.0
Fundamental skills of tennis, singles and doubles play. Appreciation of tennis as a leisure pursuit.

8 0879 260
BEGINNING RIDING 1.0
Techniques for the beginner. Taught at a riding academy. Additional fee.

8 0879 261
FENCING 1.0
Fundamentals of fencing. Understanding of fencing as a sport.

8 0879 262
VOLLEYBALL 1.0
Basic skills, game strategy and rules of volleyball.

8 0879 263
JOGGING 1.0
Proper techniques for jogging stressed, development of cardiovascular fitness through progressive running.

8 0879 264
SOCCER 1.0
The origin, development, and present status of soccer will be studied. Basic skills, game strategy, and rules will be taught and applied. As a service course to non-physical education majors, the principal aim is to introduce the student to the fundamentals of soccer.

8 0879 265
FIGURE SKATING 1.0
Figure skating for the novice taught at an off-campus skating rink. Additional fee.

8 0879 266
SKIING 1.0
The student is provided with information pertaining to basic techniques, safety, etiquette, and equipment relevant to his level of skiing. Instruction will be given on the slope for five weeks along with additional information to be given on campus. An additional fee is required for lift tickets and rental equipment.

8 0879 270
FOLK AND SQUARE DANCE 1.0
This course covers the history, techniques and styles of a wide variety of folk and square dances.

8 0879 271
SOCIAL DANCE 1.0
The course covers the traditional ballroom dances as well as current popular styles and routines.

8 0879 272
BOWLING 1.0
Adequately prepare and develop the student with a background of the necessary skills essential to performing and under the art of bowling.

8 0879 274
SCUBA DIVING 1.0
SCUBA diving techniques and safety.

8 0879 275
BEGINNING KARATE 1.0
Skills and development of personal ability in performance of the activity.

8 0879 278
YOGA 1.0
Instruction will be given in how to perform yoga postures, plus the techniques of breathing, relaxation, awareness, and concentration, with their proper progression. The historical and psychological factors involved in the development of yoga, and its increasingly widespread appear physically and philosophically will be dealt with.

Recreation and Leisure Studies

8 2103 105
OUTDOOR RECREATION SKILLS 2.0
Introduction to a wide variety of outdoor recreation and leisure pursuits with emphasis upon skill acquisition. Field visits required.

8 2103 107
WINTER OUTDOOR RECREATION SKILLS 2.0
Taught at the NJ School of Conservation. Emphasizes the development of outdoor recreation skills by direct participation in various activities including ski touring, snowshoeing, ice fishing, curling, and winter survival. If weather is unseasonable mild, substitutes such as rock climbing, orienteering and backpacking will be taught. Special fee includes room, board, and equipment use. Approval of department chairman.

8 2103 109
SPRING OUTDOOR RECREATION SKILLS 2.0
Field application of the basic skills learned in the fall and new skills based on water resources. Students will be in residence at the NJ School of Conservation for 5 days during the regular spring recess. A special fee includes room, board and equipment use. (Students may count only one course from 8 2103, 105, 107, 109 toward their major.) Approval of department chairman.

8 2103 123
LEADERSHIP TECHNIQUES IN RECREATION AND LEISURE SERVICES 3.0
Activity level leadership needed for organizing individual and group participation in social recreation settings. Application of acquired techniques in the planning, execution and evaluation of a variety of recreation games and activities. Fieldwork required.

8 2103 124
INTRODUCTION TO RECREATION AND LEISURE SERVICES 2.0
An orientation course to the broad spectrum of services which are provided to society by recreation and leisure services practitioners. The course also presents the career opportunities available in the field.

8 2103 208
LEISURE AND RECREATION IN SOCIETY 3.0
Analysis and interpretation of the concepts of leisure. Its role in individual, community and national lifestyles, its social and economic significance. The role of recreation programs and services in meeting current and future needs of society. Non-majors only.

8 2103 225
PROGRAM PLANNING IN RECREATION AND LEISURE 3.0
Theory, principles, and practices of systematic program planning. Field observation and participation is required.
Prerequisites: 8 2103 123, 124.

8 2103 228
RECREATION FOR SPECIAL POPULATIONS 3.0
Adaptation of recreation and leisure services for persons with special needs and limitations. Role of institutions and community agencies. Specialized leadership techniques. Modification requirements for areas, facilities equipment, and supplies.
Prerequisite: 8 2103 225.

8 2103 271
CLINICAL EXPERIENCES IN THERAPEUTIC RECREATION 1.0
Individualized student placements in clinical settings provide opportunity to gain firsthand knowledge of therapeutic recreation and prescriptive programming services. May be repeated for credit to a total of three semester hours.
Prerequisites: W 0401 240, 241.

8 2103 285
FIELD EXPERIENCE IN RECREATION AND PARKS 2.0–4.0
Supervised on-site laboratory experience in an approved recreation or leisure service area. Seminar meetings and individual conferences required.
Prerequisite: Department chairperson's approval.

8 2103 299
SELECTED TOPICS RECREATION AND PARK ADMINISTRATION 1.0–3.0
Professional inquiry into the study of a selected issue, problem or trend in recreation and park administration.
Prerequisite: Department chairperson's approval.

8 2103 311
SPECIAL EVENTS PLANNING AND PROMOTION 3.0
This course is a course in advanced recreation and functionally related services programming. It includes the analysis, planning and execution of special events and related activities involving large numbers of people and diverse publics. Topics include event philosophy and planning, technical and legal consideration, crowd management and promotion. Field trips required.
Prerequisite: 8 2103 225.

8 2103 312
BUDGET AND FINANCE IN RECREATION AND PARKS 3.0
Study of the various sources and methods of financing, including exploration of the philosophy and mechanics of the budgetary process in recreation and park systems.
Prerequisite: 8 2103 225.

8 2103 322
HISTORY AND PHILOSOPHY OF LEISURE, PLAY AND RECREATION 3.0
A study and analysis of the philosophical concepts concerning leisure, play and recreation, including the historical milieu that supports past theories, current thoughts and practices, and the philosophical directions for the future of recreation and leisure services.

8 2103 334
RESEARCH METHODS IN RECREATION AND LEISURE SERVICES 4.0
An introduction to the various techniques and methods used in research, the appropriate application of research methods, statistical methodology and other analytical tools for investigating problems in recreation and park professions.
Prerequisites: 8 2103 124, 225.

8 2103 340
INTRODUCTION TO COMMERCIAL RECREATION AND TOURISM 3.0
Analysis of the commercial recreation and tourism industries. Includes a study of participant profiles, types of commercial and resort enterprises, national tourism studies. Employment opportunities, trends and issues. Field visits required.
Prerequisite: 8 2103 124.

8 2103 342
DELIVERY OF COMMERCIAL RECREATION AND TOURISM SERVICES 3.0
Methods and procedures for organizing and implementing commercial recreation and tourism enterprises. Includes an in-depth analysis of delivery systems, economic and marketing trends and promotion. A class research project is part of the course requirements. Field visits required.
Prerequisite: 8 2103 340.

8 2103 346
TOURISM AND COMMERCIAL RECREATION, PLANNING DEVELOPMENT, AND ANALYSIS 3.0
Skills and techniques used in the planning, development, and analysis of tourism and commercial recreation facilities. Students will be required to complete a major research project.
Prerequisites: 8 2103 340, or 360 and 334.

8 2103 350
DESIGN, MAINTENANCE AND UTILIZATION OF RECREATION, TOURISM AND PARK FACILITIES 3.0
This course familiarizes the student with the design, planning, maintenance and utilization of recreation, tourism and park facilities. An exploration of the preservation of open space and its relationship to recreation is also included. Field trips required.

8 2103 360
OUTDOOR RECREATION RESOURCE MANAGEMENT 3.0
Survey of the planning methods and techniques utilized in outdoor recreation resource management, basic planning models, land use, legal foundations and visitor management. A class planning project is a part of the course requirements.
Prerequisite: 8 2103 124.

8 2103 361
IMPLEMENTATION OF OUTDOOR RECREATION PROGRAMS AND INTERPRETIVE SERVICES 3.0
Organization and supervisory considerations in the provision of outdoor recreation programs. Emphasis on outdoor living skills, physical and mental fitness, and environmental protection. Topics include program management of outdoor areas, outdoor recreation program standards, safety and interpretation. Field trips required.
Prerequisite: 8 2103 225.

8 2103 370
INTRODUCTION TO THERAPEUTIC RECREATION 3.0
An introduction to therapeutic recreation as a profession and service in clinical and community settings. The course includes an analysis of current issues and trends in the field, employment opportunities, and the concept of professionalism.

8 2103 372
RECREATION AND REHABILITATION SERVICES 3.0
Study of roles and interrelationships of professional personnel in the rehabilitation services in medical, correctional, and community settings. The team approach to rehabilitation services will be emphasized. Field visits required.
Prerequisite: 8 2103 228.

8 2103 377
PROGRAMMING AND SUPERVISION IN THERAPEUTIC RECREATION 3.0
This course includes assessment, planning and implementation of appropriate services and department programs and evaluation strategies. The course addresses basic program and personnel supervision of Therapeutic Recreation.
Prerequisites: W 0401 241 and 8 2103 228.

8 2103 381
COOPERATIVE EDUCATION IN RECREATION AND PARKS 4.0–8.0
Integration of academic study with supervised employment outside the formal classroom environment. The cooperative education experience is supervised by a faculty member and an agency organization supervisor.
Prerequisites: 8 2103 225, department chairperson's approval.

8 2103 390
INDEPENDENT STUDY IN RECREATION, PARKS AND LEISURE 1.0-3.0
Independent study in area of student need and/or interest pertinent to recreation, parks and leisure. Interested students must present detailed written proposal to the department chairperson for approval and determination of credit allocation. Sophomore, junior or senior standing.

8 2103 430
MANAGEMENT OF RECREATION AND LEISURE SERVICES 4.0
Managerial techniques and methods pertaining to the delivery of recreation and leisure services. Topics include leadership and problem solving skills, organizational structure, personnel management and legal issues.
Prerequisites: 8 2103 225, majors only.

8 2103 437
SENIOR SEMINAR 2.0
Examination and analysis of student preparation for field work and entry into the recreation and park profession. Formal application and placement of field work students.
Prerequisites: Majors only, minimum 2.45 cumulative grade point average at MSC.

8 2103 489
INTERNSHIP 12.0
Directed full-time professional supervisory experiences in an approved recreation, parks or leisure delivery system. Emphasis on individual development in program planning, conduct and evaluation, budget and finance, legal aspects, community and public relations.
Prerequisites: Majors only, 2.45 grade point average at MSC. 8 2103 437, and department chairperson's approval.



Physics and Geoscience

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: Richard Hodson

The Physics-Geoscience department consists of two departments, each having its own expertise, majors, and programs within one administrative structure. The department offers separate major programs in geoscience and physics, plus teacher certification. Minors offered in either physics or geoscience are especially useful to computer science or applied mathematics majors.

Part of the Physics-Geoscience department tradition is that a professor works with classes in the laboratory. This, plus a favorable student-faculty ratio, allows personal contact between student and professor. One is free to consult professors about course material for guidance or just to exchange ideas.

All programs are designed to provide substantial well-rounded preparation for students planning to enter graduate school, research, industry, or teaching.

Students entering this department should have an exposure to biology, chemistry and physics, plus three years of college preparatory mathematics. The physics major should have four years of college preparatory mathematics.

Geoscience Major

Required Courses

		Semester Hours
1914 112	Physical Geology	4
1914 114	Historical Geology	4
1914 431	Invertebrate Paleobiology	4
1914 434	Stratigraphy	4
1914 443	Mineralogy	4
1914 444	Petrology	4
1914 472	Structural Geology	3

Collateral Courses

1905 120, 121	General Chemistry I, II	4 ea.
Select two of the following in mathematics:		
1701 115	Precalculus Math	3
1701 116	Calculus A	
OR		
1701 122	Calculus I	4
1701 221	Calculus II	4
Select one of the following sequences in physics:		
1902 191, 192	General Physics I, II	4 ea.
1902 193, 194	College Physics I, II	4 ea.
Recommended in addition to the above:		
0701 183	Foundation of Computer Science I	3
1701 109	Statistics	3

Electives (Departmental)

The geoscience major is required to take 14 semester hours in geoscience major electives applying the following guidelines 14

Group I—One of the following courses:

1902 280 Astronomy 4
1914 360 Oceanography 3
1914 457 Meteorology 4

Group II—One of the following courses:

1914 250 Map Reading and Cartography 3
1914 310 Economic Geology 3
1914 410 Geology of New Jersey 3

Geoscience Minor

Required Courses

		Semester Hours
1914 112	Physical Geology	4
1914 114	Historical Geology	4
Select one sequence		
1914 431	Invertebrate Palcobiology	4
1914 434	Stratigraphy	4
OR		
1914 443	Mineralogy	4
1914 444	Petrology	4

Electives (Departmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Physics Major

Required Courses

		Semester Hours
1902 191, 192	General Physics I, II	4 ea.
1902 210	Mechanics	4
1902 240	Electricity and Magnetism	4
1902 350	Optics	4
1902 460	Modern Physics	4

Collateral Courses

1905 120, 121	General Chemistry I, II	4 ea.
0701 183	Foundations of Computer Science I	3
1701 122	Calculus I	4
1701 221	Calculus II	4
1701 222	Calculus III	4
1701 420	Differential Equations	3

Electives (Departmental)

Select 14 semester hours from the appropriate list to be obtained from the department 14

Physics Minor

Required Courses

1902 191, 192 General Physics I, II . . . . . 4 ea.
1902 240 Electricity and Magnetism 4
Plus either Option A or Option B:
Option A
1902 210 Mechanics 4
1902 Physics elective 3
Option B
Select two
1902 242 Circuit Theory 3
1902 245 Electronics and Digital Techniques 4
1902 247 Microprocessors and Their Applications 4
Total 19

Teacher Certification

Students who successfully complete a departmental major program, the teacher certification professional sequence, one biology course (from W 0401 121, 130, or 140) and Z 0834 401 (The Teaching of Science in Secondary Schools) will qualify for the Comprehensive Science Teaching Certificate. In addition, geoscience majors will qualify for the Earth Science Teaching Certificate, while physics majors will qualify for the Physical Science Teaching Certificate. Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog.

Second Teaching Field in Geoscience

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Required Courses

		Semester Hours
1902 191	General Physics I	4
1914 112	Physical Geology	4
1914 114	Historical Geology	4
1914 457	Meteorology	4
1902 280	Astronomy	4
1914 360	Oceanography	3
1914 431	Invertebrate Paleobiology	4
1905 120	General Chemistry I	4
0834 401	The Teaching of Science in Secondary Schools	4

Second Teaching Field in Physical Science

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Students majoring in a field other than physics and who wish certification in physics may take a physical science program. In addition to the certification program in their major, they must take the following:

1902 191, 192 General Physics I, II . . . . . 4 ea.
Physics Elective 4
1905 120, 121 General Chemistry I, II . . . . . 4 ea.
1905 230 Organic Chemistry I 3
Two courses representing two areas from: Astronomy, Geology, Meteorology, Oceanography 8
0834 401 The Teaching of Science in Secondary Schools 4

Courses of Instruction

Z 0834 401
THE TEACHING OF SCIENCE IN SECONDARY SCHOOLS 4.0
Considered are the objectives, curriculum, planning, instructional strategies appropriate to science, materials, methods of evaluation, health safety and legal responsibilities in the secondary science program. The use of computers in the science instructional program will also be emphasized.

Z 0834 460
MARINE SCIENCE EDUCATION 2.0
Selected field experiences and laboratory methods utilized to develop resources from the marine environment to be used in teaching the various disciplines. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: Undergraduate science major sequence, including a 400 level oceanography course and a science methods course, or permission of instructor.

Z 1902 191
GENERAL PHYSICS I 4.0
This one-semester calculus-based course, including laboratory, is a study of the principles of physics and some applications to society's problems. Topics covered include: mechanics, thermodynamics, fluids and harmonic motion. (3 hrs. lecture. 2 hrs. laboratory)
Prerequisite: Y 1701 122 or concurrent.

Z 1902 192
GENERAL PHYSICS II 4.0
Calculus-based course. Study of some principles of physics and some application to society's problems. Topics include: wave motion, sound and noise pollution, optics, electricity, lasers, nuclear theory, radiation, nuclear reactors, waste disposal. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Y 1701 221 or concurrent.

Z 1902 193
COLLEGE PHYSICS I 4.0
This one-semester course, including laboratory, is a study of the principles and applications of classical physics. Topics covered include: mechanics, heat and thermodynamics, wave motion and sound, as well as societal applications of physical principle. Calculus is not used, but familiarity with some algebra and trigonometry is required. (3 hrs. lecture, 2 hours laboratory)

Z 1902 194
COLLEGE PHYSICS II 4.0
This one-semester course, including laboratory, is a study of the principles and applications of classical physics. Topics covered include optics, electricity and magnetism, and an introduction to modern and nuclear physics as well as societal applications of physical principles. Calculus is not used, but familiarity with some algebra and trigonometry is required. (3 hrs. lecture, 2 hrs. laboratory)

Z 1902 210
MECHANICS 4.0
Classical mechanics: kinematics, Newton's laws, impulse and momentum, statics, work and energy, oscillations, general motion, central force motion, non-inertial frames, system of particles, methods of handling data. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1902 191, 192, Y 1701 221 or concurrent.

Z 1902 240
ELECTRICITY AND MAGNETISM 4.0
Basic principles of electromagnetism: Coulomb's law and general techniques in electrostatics, currents and their associated magnetic field, electromagnetic induction and magnetic properties of materials. Foundations of Maxwell's equations (without detailed solutions). Laboratory experiments. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1902 192, Y 1701 222, or concurrent.

Z 1902 242
CIRCUIT THEORY 3.0
Introduces basic methods in circuit analysis and design. Topics include linear electric circuits and their response, circuit theorems, filters, fourier analysis of different inputs and outputs, and transmission lines. (2 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Y 1701 221, Z 1902 192, 210 or Y 1701 420.

Z 1902 245
ELECTRONICS AND DIGITAL CIRCUITS 4.0
An introduction to the principles of amplifiers, waveform generators, and digital circuits, with emphasis on the use of commonly available integrated circuit packages. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1902 240.

Z 1902 247
MICROPROCESSORS AND THEIR APPLICATIONS 4.0
One semester course providing an introduction to the principles, operations and applications of microprocessors including experiment control and data manipulation. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1902 192 or 194.

Z 1902 280
ASTRONOMY 4.0
Application of physical laws to the earth as a planet, nature of the other planets, orbital motion and space flight, origin of the solar system; the birth, life, and death of a star galactic structure; and cosmology. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1902 191, 192 or 193, 194, Y 1701 115.

Z 1902 310
ADVANCED MECHANICS 3.0
Classical mechanics: transformations; oscillators; generalized motion; Lagrange's equations; Hamilton's equation; small oscillations; wave propagation. (Offered alternate years.)
Prerequisites: Y 1701 222, 420, Z 1902 210.

Z 1902 320
THERMODYNAMICS 3.0
Thermodynamic systems; laws of thermodynamics, entropy, kinetic theory; transport processes; statistical thermodynamics. (Offered alternate years.)
Prerequisites: Y 1701 222, Z 1902 210 or instructor's permission.

Z 1902 340
ADVANCED ELECTRICITY AND MAGNETISM 3.0
Dielectric materials, image calculations; Laplace's equation, magnetic materials and flux; A.C. networks; non-sinusoidal AC; transients and pulses; electromagnetic radiation. (Offered alternate years.)
Prerequisite: Y 1701 420 or instructor's permission.

Z 1902 350
OPTICS 4.0
Propagation of light, optical components, instruments and photometry. Interference, diffraction and polarization with elements of spectroscopy. (Offered alternate years.)
Prerequisites: Y 1701 222, Z 1902 240.

Z 1902 460
MODERN PHYSICS 4.0
Special relativity. Kinetic theory of matter; quantization of electricity, light and energy; nuclear atom; elementary quantum mechanics and topics on solid state. (Offered alternate years.)
Prerequisites: Z 1902, 210, 240, Y 1701 222.

Z 1902 462
NUCLEAR PHYSICS 4.0
Nuclear radiation; radioactive decay; detectors; nuclear spectroscopy and reactions; theories and models; fission, fusion, reactors; and application of radioisotopes. (Offered alternate years.)
Prerequisites: Z 1902 210, 240, Y 1701 222.

Z 1902 464
QUANTUM MECHANICS 3.0
Shroedinger's wave equation, its application and interpretation; Pauli exclusion principle and spectra. (Offered alternate years.)
Prerequisites: Y 1701 222, I 1902 460, 464.

Z 1902 470
SOLID STATE PHYSICS 3.0
Properties of solid state matter are developed from the quantum mechanics of atoms and molecules. (Not offered every year.)
Prerequisites: Y 1701 222, Z 1902 460.

Z 1902 495
LABORATORY RESEARCH IN PHYSICS 1.0-4.0
Solution of a laboratory problem research in pure physics or in physics education written report required. (Not offered every year.)
Prerequisite: At least 16 credit hours of physics beyond general physics.

Z 1914 112
PHYSICAL GEOLOGY 4.0
Materials of the earth. Land forms and structure. The processes and agents responsible for their formation and modification. Modern tectonic concepts. Topographic and geologic maps. Requied field trips. Not open to students who have had Principles of Geology. (3 hrs. lecture, 2 hrs. laboratory)

Z 1914 114
HISTORICAL GEOLOGY 4.0
Geological history of the earth; the evolution of North America in terms of the changing geography, climate and plant and animal life as interpreted from the rock and fossil record. Required field trips. (3 hrs. lecture, 2 hrs. laboratory)
Prerequisite: Z 1914 112.

Z 1914 221
CONSERVATION OF NATURAL RESOURCES 3.0
The emphasis of this course is on the imbalance of world population growth and distribution in comparison with the availability of natural resources.

Z 1914 250
MAP READING AND CARTOGRAPHY 3.0
This is the basic course in cartography. Students master the use of cartographic instruments and attempt to understand the principles underlying the common types of map projections. (2 hrs. lecture, 2 hrs. laboratory).

Z 1914 251
AERIAL PHOTOGRAPH INTERPRETATION 3.0
Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hrs. lecture, 2 hrs. laboratory)

Z 1914 252
HYDROLOGY 3.0
Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. (Also listed as a 2206 252 Hydrology).

Z 1914 254
GEOMORPHOLOGY AND CLIMATOLOGY OF NORTH AMERICA 3.0
Major controls of climate and the landforms of North America are analyzed in order to gain an understanding of how the continent compares and is related to the rest of the world. The basis and distinct characteristics of the subdivisions of North America are examined in order to bring out contrasts and unique features within the continent.
Prerequisites: Z 1914 107, 108, or 457 or instructor's permission.

Z 1914 310
ECONOMIC GEOLOGY 3.0
Geology and geography of non-metallic and metallic mineral resources and fuels. Problems associated with their occurrence and exploitation. Required field trips. (Not given every year.)
Prerequisites: Z 1914 112, or Z 4902 108 and one additional 2 or 3 semester hour course in geoscience.

Z 1914 352
FLUVIAL GEOGRAPHY 3.0
A detailed study of streams and rivers emphasizing processes causing variations in size and shape. The course analyzes the morphology of stream channels. The course is quantitative and stresses processes. (Also listed as N 2206 352 Fluvial Geography.)
Prerequisites: Z 1914 107, N 2206 100.

Z 1914 410
GEOLOGY OF NEW JERSEY 3.0
The physical features of New Jersey and their origin, geologic history, straitgraphy, paleobiology, mineralogy, structural geology, economic geology. Required field trips. (2 hrs. lecture, 2 hrs. laboratory)
Prerequisites: Z 1914 112, or Z 4902 108 and at least 8 semester hours in geology.

Z 1914 431
INVERTEBRATE PALEOBIOLIGY d4.0
Invertebrate fossils—their classification, morphology, evolution, stratigraphic distribution and paleoecology. Required field trips.
Prerequisites: Z 1914 114, W 0401 130, or instructor's permission.

Z 1914 434
STRATIGRAPHY 4.0
Stratigraphic principles and their application. Case studies of selected regions. Local stratigraphy interpreted through field studies.
Prerequisite: Z 1914 431, or instructor's permission.

Z 1914 437
SEDIMENTOLOGY 4.0
Geological processes and agents which form, transport, deposit, consolidate and alter sediments. Interpretation of the resultant sedimentary rocks. Laboratory work on the texture, mineralogy and mass properties of sedimentary particles. Required field trips. (Not offered every year.) (3 hours lecture, 2 hours laboratory.)
Prerequisite: Z 1914 112 or instructor's permission.

Z 1914 443
MINERALOGY 4.0
Crystallography, internal structure, origin, occurrence, and properties of minerals; laboratory study of common minerals. Required field trips.
Prerequisites: Z 1914 112, X 1905 121.

Z 1914 444
PETROLOGY 4.0
Description, identification, classification, origin and occurrence of sedimentary, igneous and metamorphic rocks. Laboratory study of the common rocks. Required field trips.
Prerequisite: Z 1914 443, or instructor's permission.

Z 1914 452
GEOHYDROLOGY 3.0
The study of ground-water with particular emphasis given to its mode of migration, chemistry and relation to the geographic environment. Particular attention is given to Darcy's law, soil porosity, soil permability and the ability to withdraw water for human consumption. Water pollutants and salt water incursions are investigated. Spatial distributions are analyzed and the processes examined. Also listed under Environmental, Urban and Geographic Studies as N 2206 452.
Prerequisite: Z 1914 252 or Instructor's permission.

Z 1914 455
FUNDAMENTALS OF REMOTE SENSING OF ENVIRONMENT 3.0
Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their uses. Also listed under Environmental, Urban and Geographic Studies as N 2206 455.
Prerequisite: 9 semester hours of geography or geoscience.

Z 1914 457
METEOROLOGY 4.0
The characteristics of the earth's atmosphere. Meterological instruments, principles of atmospheric physics, weather patterns and measurements of changes within the atmosphere.
Prerequisite: Introductory course in geoscience.

Z 1914 472
STRUCTURAL GEOLOGY 3.0
Recognition and interpretation of primary and tectonic rock structures. Laboratory work emphasizes the analysis of faults, joints, folds and foliation. Required field trips.
Prerequisites: Geoscience major sequence including Z 1914 114, 434, 444, Y 1701 122.

Z 1914 480
FIELD STUDIES IN GEOSCIENCE 4.0
Use of geologic, meteorologic and oceanographic instruments in field investigations. Interpretation of observations and writing a field report. Required field trips.
Prerequisites: Geoscience major sequence, Z 1914 472.

Z 1914 484
GEOLOGY FIELD TRIP 1.0
A five-day to one-week trip through areas of geologic significance. A geoscience major is expected to participate in at least two of the trips. Field trip report and collection required. Expenses shared by the participants.
Prerequisites: Geoscience major sequence including Z 1914 472 or permission of instructor. Majors only. Z 1914 472 or permission of instructor. Majors only.

Z 1914 490
SEMINAR IN GEOSCIENCE 2.0
Student field, laboratory and library investigation of a problem in the area of his/her interest in geoscience; results presented in oral and written form. Class discussion of the individual papers and of other pertinent topics of current interest in geoscience. (Not offered every year.)
Prerequisite: Geoscience major sequence or permission of the instructor.

Z 1914 491
LITERATURE RESEARCH IN GEOSCIENCE 2.0
Each participating student conducts an in-depth library research of a specific problem of his/her interest in geoscience under the guidance of a sponsoring faculty member. The results of the study will be presented in a written research-style report.
Prerequisites: At least 18 hours in geoscience credits beyond Z 1914 112, physical geology.

Z 1914 492
LABORATORY RESEARCH IN GEOSCIENCE 1.0-4.0
Each student conducts individual research on a specific problem in geoscience under the guidance of a sponsoring faculty member. The research may be based on earlier field or literary investigations. The results of the study will be presented in a written research-style report.
Prerequisites: At least 20 hours of geoscience credits beyond 1914 112, including 1914 491.

Z 1914 494
SELECTED TOPICS IN GEOSCIENCE 1.0-4.0
An in-depth study of a particular topic in geoscience, the specific subject matter of which is not offered regularly in an existing course.

Z 1914 495
INDEPENDENT STUDY IN GEOSCIENCE 1.0-4.0
An opportunity for the qualified student to do library and/or laboratory investigation in a field of science of his/her choice under the guidance of a faculty member. The course is conducted exclusively by scheduled individual conferences and reports. (Offered on demand.)
Prerequisite: Geoscience major sequence of permission of the instructor.

Z 1999 210
INTRODUCTION TO MARINE SCIENCES 4.0
A field-oriented lower division undergraduate course covering the principal disciplines in the marine sciences. The course is designed for the student to evaluate his/her interest in the marine science world. Offered at the site of the New Jersey Marine Sciences Consortium.

Z 1999 481
COASTAL MARINE GEOLOGY 4.0
A study of the geologic processes concerned with the suprainter, and subtidal areas of the near shore environment. Field studies will emphasize the dynamics of erosion and deposition as well a general sedimentation associated with modification of barrier beaches and other land forms of the New Jersey shoreline. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: Z 1914 437.

Z 1999 490
FIELD METHODS IN THE MARINE SCIENCES 4.0
The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the N.J. Marine Sciences Consortium. (2 hrs. lecture, 4 hrs. laboratory.)
Prerequisite: Senior standing in science.

Z 1999 498
INDEPENDENT STUDY IN THE MARINE SCIENCES 1.0-4.0
Individual research projects wil be selected under the guidance of a professor associated with the consortium. Open only to the advanced undergraduate students who have indicated a potential for original thinking. Offered at the site of the New Jersey Marine Sciences Consortium.

Z 4902 100
CONCEPTS IN SCIENCE 4.0
This is a one-semester physical science course with laboratory designed for those students not majoring in science areas. This course will introduce the student to methods of science while teaching some principles of physical science and some of their applications. Topics discussed include: Energy and motion; heat, energy and solar heating, sound and noise, light, lenses and fiber optics. (3 hr. lecture, 2 hr. laboratory).

Z 4902 104
HISTORY OF SCIENCE 3.0
The historical and philosophical development of science traced from the ancient Egyptians to the present.

Z 4902 105
SCIENCE OF SOUND 4.0
The physical principles of acoustics applied to the production of music and speech. Architectural acoustics and electronic sound reproduction. Level suitable for non-science majors.

Z 4902 106
SCIENCE AND SOCIETY 3.0
This is a one semester course for non-science majors designed to provide a knowledge of some of the principles of physical science and to indicate how they are related to society. Formal laboratory is not included in the course. Topics discussed vary but may include such areas as: science, a human activity; man and energy; radiation and man; electricity and man; nuclear power and man; and others.

Z 4902 107
PLANET EARTH 4.0
An introduction to the physical characteristics of planet Earth. Utilizing satellite information aerial photographs and various types of maps and charts, this course provides background for an understanding of the basic interrelationships of the Earth's atmosphere, lithosphere and hydrosphere. The human impact on Earth systems is also developed and maintained in perspective. Meets the General Education Requirement—Natural/Physical Science, Laboratory or Non-Laboratory Science.

Z 4902 108
PRINCIPLES OF GEOLOGY 3.0
Geologic materials and processes. Origin and development of the Earth throughout geologic time. Evolution of life as interpreted through the study of fossils. Not open to geoscience majors or to those who have taken physical geology.

Z 4902 110
NATURAL DISASTERS 3.0
The study of natural disasters such as volcanic activity, earthquakes and hurricanes. The causes, effects and means of predicting, preventing and minimizing the effects of disasters will be discussed. The relationships between man and his sometimes hostile habitat will be included. Non-majors only.

Z 4902 157
UNDERSTANDING THE WEATHER 3.0
This course is designed to examine the earth's weather through lectures, demonstations, observations, and recording of meteorological phenomena. Major emphasis is placed on thermodynamic processes within the atmosphere as they affect primary pressure/wind patterns, synoptic meteorology, and local weather characteristics. Attention is directed toward the physical processes affecting temperature pressure, wind, humidity, cloudiness, and visibility in order to understand the main characteristics of weather.

Z 4902 162
GENERAL OCEANOGRAPHY 3.0
A general study of the oceans and methods of modern oceanography, including the physical, chemical, geological, and biological aspects of the oceans and their interrelationship. Non-majors only.

Z 4902 180
DESCRIPTIVE ASTRONOMY 3.0
A discussion of our place in the universe from ancient ideas to modern data on the moon, planets, comets, stars, galaxies and quasars. The formation and evolution of planets, stars, black holes and the universe as a whole reveal our place in time. Non-majors only.

Z 4902 198
ENERGY, SOCIETY AND ENERGY ALTERNATIVES RACE 3.0
This is a non-mathematical course designed to: (1) provide a knowledge of some of the principles of science about different types of energy. (2) consider energy consumption by society, (3) examine the advantages and disadvantages of each source of energy, and (4) construct a policy for an Energy Alternatives Race. There are no science or mathematics prerequisites. Essentially the course consists of lecture-demonstration, discussions, and reports. Winter session only.

Z 4902 222
NEW JERSEY ENVIRONMENT: PROBLEMS AND ISSUES 3.0
Designed to focus attention on the physical characteristics of New Jersey in order to appreciate and understand the problems encountered in issues involved in management and protection of the natural environment. The significance of location, characteristics and landforms, climate weather patterns, soil and vegetation will be examimed together with the human impact on the landscape.

Z 4902 320
SCIENTIFIC PHOTOGRAPHY 2.0
Field and laboratory application of photographic techniques for use in preparing scientific reports as well as for personal study. Includes macrophotography, microphotography, micrography and electron micrography. Also offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: 12 credits of college science and a course in introductory photography or equivalent experience.

Z 4902 322
CONSUMER SCIENCE 3.0
Basic scientific principles in testing and evaluating consumer products. Field trips to local cooperating industries and testing agencies to evaluate processes and products.
Prerequisite: Junior or senior standing.

Z 4902 466
FIELD METHODS IN OCEANOGRAPHY AND MARINE BIOLOGY 2.0
This course is intended to familiarize the student with the applications and techniques of marine samplings. The nature and role of equipment will be stressed. Field experience at the N.J. Marine Sciences Consortium field station.

Political Science

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: William Batkay

Political Science is a branch of the social sciences concerned with the theory and practice of government and politics. There are six areas of interest a student may pursue: Political Thought and Philosophy, American Politics, Comparative Politics, International Relations, Public Administration, and Law.

The department also provides a Public Administration minor in order to give those seeking employment in state or local government the necessary background. It is open to all students.

Graduates in the political science major receive a Bachelor of Arts degree.

Political Science Major

Required Courses

		Semester Hours
2207 102	Institutions of American Government	3
2207 103	The American Political Process	3
2207 201	Comparative Politics	3
2207 202	International Relations	3
2207 300	Scope and Theories in Political Science	3
2207 408	Development of Political Thought to Machiavelli	3

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department 15

Political Science Minor

Required Courses

At lease one course must be selected from three of the following four core areas:

		Semester Hours
American Government:		
2207 102	Institutions of American Government	3
2207 103	The American Political Process	3
Comparative Government:		
2207 201	Comparative Government and Politics	3
2207 303	The Politics of Development and Modernization	3

International:
2207 202 International Relations 3
Theory:
2207 307 American Political Thought 3
2207 408 Development of Political Thought to Machiavelli 3
2207 409 Modern Political Thought 3

Electives (Departmental)

Select 9 semester hours from the appropriate list obtained from the department 9
2207 200 Introduction to Politics is not acceptable without departmental permission.

Public Administration Minor

Required Courses

Semester Hours
2207 102 Institutions of American Government 3
2207 305 Introduction to Public Administration 3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

S 2207 102
INSTITUTIONS OF AMERICAN GOVERNMENT 3.0
The fundamentals of the U.S. Constitution, Congress, the presidency and the courts; their operations and interactions; civil liberties.
Prerequisite or corequisite for Paralegal minors.

S 2207 103
THE AMERICAN POLITICAL PROCESS 3.0
Essential elements of American political life such as parties, pressure groups, public opinion, public policy, and foreign affairs as they relate to the dynamics of the policy process.

S 2207 200
INTRODUCTION TO POLITICS 3.0
Government and politics in the contemporary world with particular reference to American politics and institutions. Not for political science majors.

S 2207 201
COMPARATIVE POLITICS 3.0
Constitutional principles, governmental institutions and political processes of selected contemporary states.

S 2207 202
INTERNATIONAL RELATIONS 3.0
Recent and contemporary world politics and the foreign relations and policies of selected states.

S 2207 203
INTERNATIONAL ORGANIZATIONS 3.0
Political and administrative institutions of international government with emphasis upon the United Nations and selected regional organizations.

S 2207 301
AMERICAN PARTY SYSTEM 3.0
Organization, function and practice of political parties in the U.S. campaign functions, membership; problems, political finance and policy formation practices.
Prerequisite: S 2207 102, or 103, or 200 or permission of instructor.

S 2207 302
PUBLIC OPINION AND PRESSURE GROUPS 3.0
The nature and development of public opinion and pressure groups in the United States and their influence on public policy and political process.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.

S 2207 303
POLITICS OF DEVELOPMENT AND MODERNIZATION 3.0
The major contemporary schools of political modernization and development theory. Interrelationship among political, social and economic variables.

S 2207 304
STATE AND LOCAL GOVERNMENT 3.0
State political systems, including their administrative and local subsystems; federal-state and inter-state relations; the political institutions of New Jersey.
Prerequisite: S2207 102, or 103, or 200, or permission of instructor.

S 2207 305
INTRODUCTION TO PUBLIC ADMINISTRATION 3.0
Literature and developments in the field of public administration. The federal bureaucracy in the policy-making process.
Prerequisites: S 2207 102, or 103, or 200, or permission of instructor.

S 2207 306
CAMPAIGN POLITICS 3.0
This course is taught in election years and provides the student with field experience at the local precinct or party level.
Prerequisite: S 2207 102, or 103, or 200.

S 2207 307
AMERICAN POLITICAL THOUGHT 3.0
The development of American ideas covering political authority from Hamilton, Madison and Marshall to the present.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.

S 2207 308
ETHNIC POLITICS IN AMERICA 3.0
The political behavior of American ethnic groups from the Puritans to the Puerto Ricans.
Prerequisite: S 2207 102, or 103, or 200, or permission of instructor.

S 2207 309
URBAN POLITICS 3.0
The policies, processes, interrelationships and organization of governments in heavily-populated areas of the United States.

S 2207 310
PUBLIC PERSONNEL ADMINISTRATION 3.0
The problems and processes in the U.S. of public personnel administration at the state and local level.
Prerequisite: S 2207 102, 305, or instructor's permission.

S 2207 311
GOVERNMENTAL BUDGETING 3.0
The budgetary process in governmental agencies from the perspective of political demands and influences.
Prerequisite: S 2207 102, 305.

S 2207 315
URBAN ADMINISTRATION 3.0
Problems and policy-making in the larger urban or metropolitan complexes.
Prerequisite: S 2207 102, 305, or instructor's permission.

S 2207 316
CONTEMPORARY WESTERN EUROPEAN POLITICS 3.0
Government and politics of Great Britain, France, West Germany and Italy. Institutions, parties, ideologies and interest groups.

S 2207 320
LAW IN SOCIETY: CIVIL LAW 3.0
This course will examine the American civil legal system as it affects a variety of our social institutions.

S 2207 321
LAW IN SOCIETY: CRIMINAL LAW 3.0
Introduces the student to institutions, processes, and social functions of criminal law.

S 2207 322
AMERICAN CONSTITUTIONAL LAW:
THE FEDERAL SYSTEM 3.0
Interpretation of Supreme Court decisions in the areas of the distribution of power within the national government and between the national government and the states.
Prerequisite: S 2207 102

S 2207 323
AMERICAN CONSTITUTIONAL LAW:
CIVIL RIGHTS AND LIBERTIES 3.0
The development of the Constitution and the Supreme Court of the United States illustrated through reference to court opinions in civil rights and liberties.

S 2207 324
AMERICAN PUBLIC POLICY 3.0
A study of the methods used to analyze public policy and an examination of current public policy issues. Special attention is given to the use of comparative analysis in analyzing American public policies.

S 2207 330
AMERICAN FOREIGN POLICY 3.0
A consideration and analysis of the goals that the nation's foreign policy officials seek to attain abroad, the values that give rise to those objectives, and the means or instruments through which they are pursued.
Prerequisite: S 2207 202.

S 2207 402
GOVERNMENT AND POLITICS OF AFRICA 3.0
Governmental and politial development, organization and practices in sub-Saharan Africa.
Prerequisite: S 2207 201 or instructor's permission.

S 2207 403
GOVERNMENT AND POLITICS OF CHINA-JAPAN 3.0
The government and politics of Japan, China and Korea in the contemporary world.
Prerequisite: S 2207 201 or instructor's permission.

S 2207 404
GOVERNMENT AND POLITICS OF INDIA AND
SOUTH ASIA 3.0
The political experiences and institutions of the Indian subcontinent since 1947: The Republic of India, Pakistan, Ceylon and Bangladesh.
Prerequisite: S 2207 201 or instructor's permission.

S 2207 405
GOVERNMENT AND POLITICS OF LATIN-AMERICA 3.0
Governmental and political development, organization and practices in the states of Middle America and South America.
Prerequisite: S 2207 201 or instructor's permission.

S 2207 406
GOVERNMENT AND POLITICS OF THE MIDDLE EAST 3.0
Government and politics in the Arab states, Turkey, Israel and Iran.
Prerequisite: S 2207 201 or instructor's permission.

S 2207 407
GOVERNMENT AND POLITICS OF U.S.S.R. 3.0
The political and institutional organizations of the Soviet Union; contemporary political issues, party and governmental structures.
Prerequisite: S 2207 201 or instructor's permission.

S 2207 408
DEVELOPMENT OF POLITICAL THOUGHT TO
MACHIAVELLI 3.0
Selected major political philosophies from Plato and Aristotle up to but not including Machiavelli.

S 2207 409
MODERN POLITICAL THOUGHT 3.0
Selected political philosophers from Machiavelli to the present.

S 2207 410
DIRECTED STUDY 3.0–6.0
Juniors and seniors may elect three to six credits of independent study under the direction of a member of the Political Science staff.

S 2207 411
THE POLITICS OF RACE 3.0
Black participation in the American political system from the colonial period to the present.

S 2207 412
GOVERNMENT AND POLITICS OF COMMUNIST
EAST EUROPE 3.0
The political and governmental organizations of the communist countries of eastern and central Europe (exclusive of the U.S.S.R.): institutions, practices and ideologies including inter-regional relations.
Prerequisite: S 2207 201 or instructor's permission.

S 2207 413
AFRO-ASIAN FOREIGN POLICIES 3.0
The course will examine the position and role of new African and Asian nations in international politics in the post-World War II era.
Prerequisite: S 2207 303 or instructor's permission.

S 2207 416
SELECTED TOPICS IN POLITICAL SCIENCE 3.0
This course allows the instructor to select a political problem which is either not covered in the curriculum or which deserves more in-depth treatment than is possible in a regular course.

S 2207 420
SEMINAR AND INTERNSHIP IN POLITICAL SCIENCE 4.0
In this course students will work as interns for one semester in the office of a N.J. state legislator, U.S. congressperson or senator, or state or federal executive.

S 2207 425
POLITICS OF FEDERAL BUREAUCRACY 3.0
In-depth examination of the federal bureaucracy in relationship with national, state and local agencies.
Prerequisite: S 2207 102.

S 2207 426
SEMINAR AND INTERNSHIP IN PUBLIC
ADMINISTRATION I 5.0
A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Prerequisite: Instructor's permission.

S 2207 427
SEMINAR AND INTERNSHIP IN PUBLIC
ADMINISTRATION II 4.0
A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Prerequisite: Instructor's permission.

S 2207 430
INTERNATIONAL LAW 3.0
The nature and place of international law in the conduct of international relations.

S 2207 435
SENIOR HONORS SEMINAR 3.0
The course will involve intensive research in a seminar setting for senior political science majors. Students will conduct original research and present reports to meetings of the seminar.
Prerequisites: The course will be open only to senior majors with at least a 3.4 cumulative grade point average in political science.

Psychology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Roland Siiter

Undergraduate courses in psychology establish a sound basis for later professional or graduate training in psychology. As part of a broad liberal education, they satisfy the needs of students, majors and non-majors, and teach principles and techniques as intellectual tools for work in other social and biological sciences and in professional fields such as social work, journalism, business and law. Courses required for teacher certification in the State of New Jersey, as described in the Teacher Education program, are provided.

In addition to a diverse general psychology program, the department offers a Community Psychology concentration and an Honors Seminar Program, as well as minors in Psychology; and Community Psychology.

Psychology Major

Required Courses

		Semester Hours
2001 101	General Psychology I: Growth and Development	3
2001 203	General Psychology II: An Experimental Approach	3
2001 220	Quantitative Methods in Psychology	3
2001 301	Experimental Psychology	4

Electives (Departmental)

Select 24 semester hours from the appropriate list to be obtained from the department.....24

Concentration Programs Within the Major

Community Psychology

Required Courses

		Semester Hours
2001 101	General Psychology I: Growth and Development	3
2001 203	General Psychology II: An Experimental Approach	3
2001 220	Quantitative Methods in Psychology	3

Specialization

2099 245	Introduction to Community Psychology	3
2099 385	Advanced Community Psychology	3
2099 387	Methods in Evaluation Research	4
2099 391	Cooperative Education in Psychology	9

Electives (Departmental)

		Semester Hours
2001 201	Child Psychology	3
2001 202	Adolescent Psychology	3
2001 225	Psychology Adjustment	3
2001 227	Psychological Aspects of Human Sexuality	3
2001 230	Environmental Psychology	3
2001 231	Psychology of Aggression	3
2001 235	Psychology of Exceptional Children and Youth	3
2001 260	Social Psychology	3
2001 265	Psychology of Women	3
2001 268	Psychological Aspects of Aging	3
2001 305	Physiological Psychology	3
2001 310	Introduction to Psychological Testing	3
2001 341	Psychological Aspects of Consumer Behavior	3
2001 365	Abnormal Psychology	3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department.....3

Note: The community psychology concentration requires 31 semester hours of course work and 9 semester hours of applied experience. Check with the department for details.

Community Psychology Minor

Required Courses

		Semester Hours
2001 101	General Psychology I: Growth and Development	3
2099 245	Introduction to Community Psychology	3
2099 385	Advanced Community Psychology	3

Electives (Departmental)

		Semester Hours
2001 201	Child Psychology	3
2001 202	Adolescent Psychology	3
2001 225	Psychology of Adjustment	3
2001 227	Psychological Aspects of Human Sexuality	3
2001 230	Environmental Psychology	3
2001 231	Psychology of Aggression	3
2001 235	Psychology of Exceptional Children and Youth	3
2001 260	Social Psychology	3
2001 265	Psychology of Women	3
2001 268	Psychological Aspects of Aging	3
2001 305	Physiological Psychology	3
2001 310	Introduction to Psychological Testing	3
2001 332	Psychological Foundations of Personality	3
2001 341	Psychological Aspects of Consumer Behavior	3
2001 365	Abnormal Psychology	3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department.....3

Note: The community psychology minor requires 21 semester hours of course work. Check with the department for details.

General Psychology Minor

Required Courses

2001 101 General Psychology I: Growth and Development 3
2001 203 General Psychology II: An Experimental Approach 3

Electives (Departmental—300 level or above)

Select 6 semester hours from the appropriate list to be obtained from the department.....6

Electives (Departmental-general)

Select 6 semester hours from the appropriate list to be obtained from the department.....6

Teacher Certification (Social Sciences)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog.

Departmental course requirements include 30 semester hours of social science courses. Consult with an advisor for further information.

Teaching of Psychology Certification Endorsement

This certificate is necessary for teaching psychology in elementary and secondary schools. The requirements are as follows:

A bachelor's degree based upon a four-year program in an accredited college.

A regular New Jersey teaching certificate.

Completion of 37 semester hours in Psychology including electives. Check with the department for appropriate courses.

Courses of Instruction

T 2001 100
RE-ENTRY SEMINAR 2.0
Provides academic, career, and personal counseling during first semester adjustment period, group identification and support while developing renewed skills and ego strength. Offered only on a pass/fail basis.

T 2001 101
GENERAL PSYCHOLOGY I:
GROWTH AND DEVELOPMENT 3.0
Psychology as an applied behavioral science; human development, conflict and adjustment, social behavior, group processes, individual differences, personality theory and assessment, behavior disorders, and principles of conditioning, learning and forgetting.

T 2001 102
WOMEN'S WORLDS 3.0
This course introduces the general student to the broad and interdisciplinary field known as women's studies. It is designed to make students aware of the new discoveries in feminist research and to focus on many aspects of the female experience. The course is designed to help students understand different methodologies in diverse disciplines and to treat areas such as literature, history, psychology, and the arts through a thematic approach. Meets the General Education Requirement and the Minorities Culture Requirement. Cross listed with Women's Studies (9 2220 102).

T 2001 103
FRESHMAN SEMINAR 3.0
Major objective is to better acclimate the beginning college student (freshman and transfers) to campus life through an emphasis on affective education and group interaction. Values clarification and self identity are important course components.

T 2001 105
PSYCHOLOGICAL STUDY OF SOCIAL ISSUES 3.0
This course surveys the broad range of social problems which may be illuminated by psychological analysis. It is designed to demonstrate at an introductory level the methods by which psychologists gather evidence about social issues. It will focus on techniques that can be used beyond the laboratory and show the relationship between theoretical perspectives and applications to real-life.

T 2001 109
THE HUMAN ENVIRONMENT 3.0
Interdisciplinary with geography. People's modification and understanding of the environment. Future human and environmental projections.

T 2001 200
EDUCATIONAL PSYCHOLOGY 3.0
Required for teaching. Child and adolescent development. Fundamentals of learning theory as applied to classroom situations, learning inhibition and academic non-achievement, personal-social adjustment, measuring and evaluating, teaching-learning, creativity.
Prerequisite: T 2001 101.

T 2001 201
CHILD PSYCHOLOGY 3.0
Growth, development and behavior of children. Physical, intellectual, social and emotional development and their interaction. Scientific method exemplified through the literature and intensive study of individual children.
Prerequisite: T 2001 101.

T 2001 202
ADOLESCENT PSYCHOLOGY 3.0
Biological, psychological and social factors that shape the transition from childhood to adulthood. Normal and deviant patterns of development in morals, intellect, emotions and judgment. Problems of adolescents with practical application to oneself and others.
Prerequisite: T 2001 101.

T 2001 203
GENERAL PSYCHOLOGY II:
AN EXPERIMENTAL APPROACH 3.0
Emphasis on psychology as an experimental and research oriented science. Topics under investigation include experimental design, psychological measurement, physiology, perception, sensory processes, motivation, emotional behavior, and advanced topics in psychological learning theory.
Prerequisite: T 2001 101.

T 2001 220
QUANTITATIVE METHODS IN PSYCHOLOGY 3.0
Descriptive statistics and introduciton to statistical inference. Emphasis on practical application of statistical tools in testing and research. Topics include logic of statistics, organization and presentation of statistical data, measures of central tendency, variability, and relative position. Probability and the normal curve, measures of correlation, parametric and non-parametric tests of significance.
Prerequisite: T 2001 101.

T 2001 225
PSYCHOLOGY OF ADJUSTMENT 3.0
Individual and social adjustment. Typical varieties of adjustive behavior illustrated by practical examples. Factors which facilitate or impede man's adaptation to life situations such as work, marriage, disability, etc.
Prerequisite: T 2001 101.

T 2001 227
PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY 3.0
Behavior and attitudes influenced by basic sexuality widens perspectives to aid in decision making. Developmental periods and sexual relationships. Connections between psychological theory and sexual mores; genetic understandings.
Prerequisite: T 2001 101.

T 2001 230
ENVIRONMENTAL PSYCHOLOGY 3.0
The influence of the physical environment on the behavior of organisms: population growth and regulation; crowding; sensory experience, enrichment and deprivation; motivational force of environmental stimulation; adaptation to environment as a function of prolonged exposure, salutary effects of aesthetically pleasing stimulation.
Prerequisite: T 2001 101.

T 2001 231
PSYCHOLOGY OF AGGRESSION 3.0
The root causes of violence in America will be examined through case studies (the protest-movement of the 1960's, sexual and physical abuse, violent-criminal activity, etc.) and familiarization with biochemical, psychological and socio-cultural research into causes and effects of aggression and violence.
Prerequisite: T 2001 101.

T 2001 235
PSYCHOLOGY OF EXCEPTIONAL CHILDREN AND YOUTH 3.0
Surveys current practices and problems of exceptional children and youth. Explores the unique needs of individuals with handicaps that involve intellectual, sensory, motor, neurological, social and emotional origins. Utilizes analysis of case materials for theoretical and practical applications to the psychology of exceptionality.
Prerequisite: T 2001 101.

T 2001 240
INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3.0
Application of psychological principles and practices in business and industry. Problems of communication, group dynamics, man-machine relations, employee attitudes, accident prevention, industrial job selection techniques, motivation, executive leadership. Commonly used selection tests will be evaluated.
Prerequisite: T 2001 101.

T 2001 246
PSYCHOLOGY OF THE BLACK EXPERIENCE 3.0
Historical impact of scientific and institutional racism on the psychological study of blacks. Survey and critical analysis of traditional European approaches with non-traditional methods of comparison. Future development and advancement of a black psychology considered. Meets the General Education Requirement and the Minorities Culture Requirement.
Prerequisite: T 2001 101

T 2001 248
PSYCHOLOGY AND LAW 3.0
Law and psychology share a common focus: the understanding, prediction and regulation of human behavior. Despite this commonality of interest, different emphasis on these elements and a different mandate have frequently hindered active communication and collaboration between the disciplines. The purpose of this course is to present the common ground of law and psychology, and show how they contribute to each other.
Prerequisite: T 2001 101.

T 2001 255
PROBLEMS OF PERFORMANCE 3.0
Development of techniques needed for success in public appearances involving music, theatre, speech, etc. Resolving such problems as stage fright, memory loss, pre-performance anxiety. Attaining self-understanding and confidence using techniques of Havas, Berne, Horrigol, Weekes, Alexander, others. Guest performers. Open to all majors. This course is cross listed with H 1004 255.

T 2001 260
SOCIAL PSYCHOLOGY 3.0
Focus on social behavior of the individual and the group, social perception, motivation, and learning. Attitudes and values. Development and dynamics of social groups. Inter-group tension and prejudice. Mass phenomena. Psychological approaches to social issues.
Prerequisite: T 2001 101.

T 2001 265
PSYCHOLOGY OF WOMEN 3.0
The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined.
Prerequisite: Six semester hours in psychology.

T 2001 268
PSYCHOLOGICAL ASPECTS OF AGING 3.0
Overview of later maturity and aging. Emphasis of psychological, physiological and sociological aspects. Aging and the cognitive process. Mental health, death, adjustment problems, needs, issues.
Prerequisite: T 2001 101.

T 2001 300
THE TEACHING OF PSYCHOLOGY 3.0
This course covers the objectives, content, procedures and evaluation of teaching psychology. Topics include organization of classroom activities, lesson planning, techniques of motivation, use of multisensory aids, applications of principles of learning, and tests and measurements. Observation and participation in classroom activities and preparation for student teaching are coordinated with this course.
Prerequisite: Majors only and instructor's permission.

T 2001 301
EXPERIMENTAL PSYCHOLOGY 4.0
Introduction to laboratory methods of research in areas such as motivation, perception and learning. Emphasis is on design and execution of exploratory investigations. (3 hours lecture, 3 hours laboratory.)
Prerequisite: T 2001 220.

T 2001 305
PHYSIOLOGICAL PSYCHOLOGY 3.0
Anatomical, neural and biochemical bases of behavior are studied. Topics include localization of function, neuro-hormonal interaction, sensory and motor functioning, emotions, the relationship of neurophysiological processes and personality.
Prerequisite: T 2001 203 or instructor's permission.

T 2001 308
PERCEPTION 3.0
The theory and procedure of perceptual research. Theoretical approaches reviewed; modern psychophysical and perceptual research. Traditional problems of perception, constancies of size and color brightness.
Prerequisite: T 2001 203 or instructor's permission.

T 2001 310
INTRODUCTION TO PSYCHOLOGICAL TESTING 3.0
Tests of intelligence, aptitude, achievement and personality. Principles of psychological testing. Approaches to test construction.
Prerequisite: T 2001 220.

T 2001 313
COGNITION 3.0
The study of the acquisition, storage, retrieval, and use of knowledge, utilizing behavioral, observational, and computer modeling methods.
Prerequisite: T 2001 203 or instructor's permission.

T 2001 332
PSYCHOLOGICAL FOUNDATIONS OF PERSONALITY 3.0
Current approaches and theories of personality development and organization.
Prerequisite: T 2001 203.

T 2001 340
HUMAN LEARNING AND MEMORY 3.0
Research, language and methods of learning theory. Classical and operant conditioning, complex habits, remembering and forgetting, transfer of training, cognition and behavior modification. Review of animal research but primary emphasis is on man.
Prerequisite: T 2001 203 or instructor's permission.

T 2001 341
PSYCHOLOGICAL ASPECTS OF CONSUMER BEHAVIOR 3.0
Applications of the science of psychology to consumerism, consumer protection, questionnaire construction and opinion surveys, marketing and advertising.
Prerequisite: T 2001 220.

T 2001 348
PSYCHOLINGUISTICS 3.0
The study of language through linguistic, behavioral, and cognitive methods. Basic linguistic ideas used for the explication of problems in grammar, cognitive structure, meaning, and speech production and comprehension.
Prerequisite: T 2001 203 or instructor's permission.

T 2001 353
COMPARATIVE PSYCHOLOGY 3.0
The student will explore experimental and field studies of behavior in a few selected animal species with particular reference to the behavior of vertebrates. The program will involve detailed study of instinctive behavior and imprinting, respondent and operant behavior with emphasis upon the procedures and variables concerned with the acquisition of new forms of behavior.
Prerequisite: T 2001 203 or instructor's permission.

T 2001 355
MOTIVATION 3.0
The concepts of instincts, homeostasis, drive, reinforcement, arousal and inception are analyzed with reference to data drawn from many areas of experimentation. Primary emphasis on the experimental, rather than the theoretical literature. Motivational concepts relevant to human and animal research.
Prerequisites: T 2001 203 and 6 additional hours in psychology.

T 2001 360
HISTORY AND SYSTEMS OF PSYCHOLOGY 3.0
Historical developments of psychology. Comparative analysis of the major schools of contemporary psychology. New trends and movements in psychological theory.
Prerequisite: T 2001 203 and 6 additional hours in psychology.

T 2001 365
ABNORMAL PSYCHOLOGY 3.0
Overview of psychopathological processes. Neuroses, psychoses, and characterological disorders. Feeling, thinking and behavioral aspects during the life span. Diagnostic and treatment procedures.
Prerequisite: T 2001 203 and 225 or 332.

T 2001 373
PSYCHOLOGY AND LITERATURE 3.0
Terminology and techniques of modern depth psychologies—Freudian, Jungian, Adlerian—to illuminate the literary portrayal of human character in masterpieces of world literature. Study organized into themes such as the quest for selfhood, the alienated individual, love and marriage, parents and children.
Prerequisite: Six semester hours in psychology or English.

T 2001 400
SEMINAR IN PSYCHOLOGY 3.0
Intensive study on topics related to student and instructor interest. Forum for instructor specialization and small group interaction. Advanced students only.

T 2001 402
SOCIAL ROLE OF PSYCHOTHERAPIES 3.0
The effects of various psychotherapies upon society, social institutions and social relationships. Impact of classical Freudian therapy, behaviorism, group and encounter movements.
Prerequisites: Two courses in psychology.

T 2001 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
Transcultural focus on the interrelated nature of culture and human behavior. Team-taught interdisciplinary course with emphasis on mutual dependencies of psychological and anthropological theory and method. Students work with bicultural informants. Cross-listed with Anthropology (J 2202 405).
Prerequsities: T 2001 101 or J 2202 100.

T 2001 420
PACKAGED COMPUTER PROGRAMS FOR PSYCHOLOGY 1.0
An introduction to the use of statistical packages in the computer for the purpose of doing extensive statistical and analyses of data. One such package will be reviewed thoroughly among datatest, SPSS, SAS, bio-med. Principles of coding and keypunching will also be presented.

T 2001 459
SPECIAL TOPICS IN PSYCHOLOGY 3.0
In-depth view of important theoretical and methodological issues in a specific area of psychology. The area to be covered is chosen by the instructor. The course permits the instructor and students to examine psychological issues which are either not covered in the curriculum or which deserve more in-depth treatment than is possible in a regular course. The course may be taken no more than twice as part of major or minor degree requirements in psychology.
Prerequisites: Junior standing and instructor's permission.

T 2001 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
Emotional correlates of the musical experience are explored through research findings, psychological testing and inquiry, and philosophy. The implications of current theories applied to practice in music therapy, education, and performance are discussed. This course is cross listed with H 1095 463.

T 2001 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
The basic literature concerning psychological research in music is reviewed, with emphasis on experimental research techniques and interpretation of data. The implications of research for music therapy, education, and performance are discussed. This course is cross listed with H 1095 464.

T 2001 470
CHILDREN'S RIGHTS AND CHILD ADVOCACY 3.0
The review and evaluation of the rights, privileges, and responsibilities of young citizens (preschool through adolescence). The process and goals of advocacy. The community services available to and lacking for the optimum development to maturity of young citizens. Psychology, education, sociology, mental health, law enforcement, medicine are domains of study and investigation.
Prerequisite: Junior standing and instructor's permission.

T 2001 491
INDEPENDENT STUDY I 1.0-3.0
Individual project under supervision of a professor in the department.
Prerequisite: Instructor's permission.

T 2001 492
INDEPENDENT STUDY II 1.0-3.0
Individual project under supervision of a professor in the department.
Prerequisite: Instructor's permission.

T 2099 245
INTRODUCTION TO COMMUNITY PSYCHOLOGY 3.0
Integration of social psychology with mental health in the resolution of problems in the community. Social psychological theories and empirical strategies used to study the dynamics of power, membership, change and deviance. Accent also on comprehensive mental health center and roles of community psychologist.
Prerequisite: T 2001 101.

T 2099 385
ADVANCED COMMUNITY PSYCHOLOGY 3.0
Supervision is provided in a variety of community action programs which have preventative as well as treatment goals. Day and hour assignments can usually be arranged, but effective study participation will require a 3 hour block of time in order to serve directly in a community setting.
Prerequisite: T 2001 101, T 2009 245 or instructor's permission.

T 2099 387
METHODS IN EVALUATION RESEARCH 4.0
This course focuses on the application of psychological research methods and knowledge to the evaluation of the effectiveness or ineffectiveness of community programs. Emphasis will be on techniques for program planning and for constructive innovations in community settings.
Prerequisite: T 2001 220, majors only, T 2099 245, instructor's permission, T 2099 385, work in field.

T 2099 391
COOPERATIVE EDUCATION IN PSYCHOLOGY 9.0
The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off campus, during which a student is supervised by a faculty coordinator and the office of cooperative education, and is responsible for completing the terms of a learning contract.
Prerequisite: Junior status.

Sociology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Laura Kramer

Sociologists deal with varied questions about the social world and the lives of individuals within it. Some areas of concern may be: the way wealth and power affect society, major characteristics of contemporary family life, how individuals organize and influence their everyday social world. Taking sociology courses ensures that the student learns to confront these and other issues.

The Sociology major provides the groundwork for fields such as teaching, crime prevention, social work, law, or social research. There are three minors in Applied Sociology which may be taken in combination with the Sociology major or another major. One minor specializes in the application of sociology to the helping professions (such as social work or the ministry), one minor deals with the application of sociology in work and industry, and one minor applies sociology and other social sciences to the study of Criminal Justice. The minor in Criminal Justice is described in this catalog under Interdisciplinary Minors.

The Sociology Department offers a Bachelor of Arts degree.

Sociology Major

Required Courses

		15 Semester Hours
2208 201	Foundations of Sociological Inquiry	3
2208 301	Sociological Research Method I	3
2208 313	Sociological Theory: Critical Analysis	3
2208 314	Statistics for Social Research	3
2208 300	Externship in Sociology	
or		
2208 410	Social Action Practicum	3

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department.....21
(9 semester hours must be selected from 300 or 400 level courses with appropriate approval.)

Note: It is important to try to meet the methods requirement during the junior year.

Applied Sociology Minor

EMPHASIS ON HELPING PROFESSIONS AND INSTITUTIONS

As part of its Applied Sociology program, the department has an emphasis on helping professions and institutions. It is open to students in all majors who are interested in pursuing careers in the human service field.

Required Courses

		Semester Hours
2208 336	The Sociology of Helping Professions and Institutions	3
2208 337	Methods and Techniques in the Helping Professions	3
2208 300	Externship in Sociology (Supervised Field Work) or	3
2208 410	Social Action Practicum (Supervised Field Work)	3

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department.....9
Special clusters of electives are recommended for students who want expertise in helping professions dealing with the aged.

Applied Sociology Minor

EMPHASIS ON WORK AND INDUSTRY

The Sociology Department's Applied Sociology minor includes a program on work and industry. This minor is open to students in all majors who are interested in applying sociological understanding to the areas of labor relations, professions, industrial and other work settings.

Required Courses

		Semester Hours
2208 304	Sociology of Work and Professions	3
2208 300	Externship in Sociology, *or*	3
2208 410	Social Action Practicum	3
2208 414	Selected Topics in Applied Sociology *or*	3
2208 335	Workers and Their Organizations	3

Electives

Select 9 semester hours from the appropriate list to be obtained from the department. 9

Note: It is possible to have further field experience by doing a project of your choice and taking 2208 310 Directed Independent Research as an elective.

Courses of Instruction

U 2208 100
THE SOCIOLOGICAL PERSPECTIVE 3.0
An introduction to the study of human groups, from peer groups to families to societies. How and why culture, social structure, and group processes arise. Consequences of social forces for individuals. Meets the General Education Requirement—Social Science, Survey Course.

U 2208 101
CRIMINOLOGY 3.0
Definitions of crime; sociological explanation of crime; the nature and extent of criminal behavior. Analysis of different types of crime, including juvenile delinquency, corporate crime, crimes against women, and crimes by police. Institutions of social control: police, courts, prisons. Meets the General Education Requirement—Social Science, Topic Course.

U 2208 113
SOCIAL PROBLEMS 3.0
How social structure and social institutions are related to problems such as discrimination, environmental pollution, violence, and poverty. Meets the General Education Requirement—Contemporary Issues.

U 2208 200
SOCIOLOGY OF EDUCATION 3.0
The school as an institution of social control and social change. The social organization of schools: social roles of students, teachers and other school personnel. (Not to be used for teacher certification.)

U 2208 201
FOUNDATIONS OF SOCIOLOGICAL INQUIRY 3.0
An introduction to the methods and theory of sociological inquiry. Topics include: comparison of dominant paradigms of sociological thought, critical analysis of basic concepts in the field, logic and rhetoric of sociological analysis, and ethical and value issues in the practice of sociology. Emphasis will also be placed upon writing sociology; documentation, litarature search, organization and style.
Prerequisite: M 1501 105

U 2208 202
RACIAL AND ETHNIC RELATIONS 3.0
The social meaning of race and ethnicity. The social, psychological and structural sources of racism, the consequences of this phenomenon to groups; situation and comparative data. Meets the General Education Requirement—Social Science, Topic Course. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

U 2208 203
SOCIOLOGY OF ORGANIZED CRIME 3.0
Organized crime as a sociological phenonmenon. The methods and goals of large-scale crime and its economic, political and social costs; popular attitudes towards organized crime; efforts of enforcement and investigation agencies to deal with the problem.

U 2208 204
SOCIOLOGY OF THE FAMILY 3.0
Discussion of "official" and "unofficial" (single parent, gay/lesbian) family relationships; compare current U.S. family forms with those of other historical periods and societies; examine trends in contemporary societies affecting family forms, such as changing work role of women, changed sexual norms in courtship and recent changes in divorce rate; analyzes issues in the "politics of the family." Meets the General Education Requirement—Social Science, Topic Course.

U 2208 205
BLACK FAMILY 3.0
The black family in American society; historical perspectives and contemporary conflicts surrounding the black family. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

U 2208 206
INDIVIDUAL AND SOCIETY 3.0
The relationship between culture, social structure, various institutions and the individual's social perceptions, sense of self and self-presentation are explored in this course. The structure of small groups is also discussed. Meets the General Education Requirement—Electives, Personal/Professional Issues.

U 2208 207
SOCIAL STRUCTURE OF AMERICAN SOCIETY 3.0
Empirical materials on social structure; inter-institutional relations as the form of the broad, general structure of American society. Meets the General Education Requirement—Social Science, Topic Course.

U 2208 209
SOCIOLOGY OF POVERTY AND WELFARE 3.0
Poverty and welfare institutions as social phenomena. The meaning of poverty, absolute and relative deprivation, the functions of social welfare institutions. Meets the General Education Requirement—Contemporary Issues.

U 2208 211
SOCIOLOGY OF HEALTH AND ILLNESS 3.0
Social and cultural definitions of health and illness, social sources of illness, the social role of the "sick," comparative medical beliefs and practices and medical institutions. Meets the General Education Requirement—Contemporary Issues.

U 2208 212
SOCIOLOGY OF SOCIAL AND TECHNICAL CHANGE 3.0
Social processes affecting technological innovation and the forms in which an innovation is institutionalized or abandoned. The social consequences and assessment of technological innovations.

U 2208 214
SOCIOLOGY OF CONFLICT AND VIOLENCE 3.0
A multidisciplinary approach to the social sources of conflict and violence; the sociological approach contrasted with biological and other approaches; interpersonal and institutional conflict and violence; the relationship between conflict and violence; types of conflict and violence, war, crime, class conflict and ethnic and racial hostilities. Meets the General Education Requirement—Contemporary Issues.

U 2208 216
SOCIOLOGY OF FOOD AND POPULATION 3.0
This course will examine the ways in which people's food production and consumption patterns are affected by and related to other aspects of their social organization. The interrelationship between food production/consumption patterns, political life, stratification systems, and demography will be examined. The main focus will be a comparison between different forms of social organization with respect to the management of food and population issues. Meets the General Education Requirement—Contemporary Issues.

U 2208 218
SOCIOLOGY OF POPULATION 3.0
Problems of population and demographic change; social foundations and consequences of changes in fertility, mortality, and migration. Population and socio-economic development. The uses of demographic data in planning, policy making, and social reseach. Meets the General Education Requirement — Contemporary Issues.

U 2208 219
SOCIOLOGY OF AGING 3.0
Aging process from a sociological perspective. Demographic trends, sociological theories, sociocultural factors, aging in different societies and social movements among the elderly.

U 2208 220
SOCIOLOGY OF RICH AND POOR NATIONS 3.0
This course focuses on the interrelationships between development and underdevelopment and upon the division of the world into rich and poor nations. The phenomenon of underdevelopment is analyzed in sociological terms by emphasizing its demographic, stratification, migratory, ideological, educational, family and religious aspects.

U 2208 300
EXTERNSHIP IN SOCIOLOGY 3.0-9.0
Students will select an institution in the metropolitan area in which to become participant-observers. Application of sociological perspective to the problems and structure of institutions encouraged through faculty supervision. Multiple semester selection permitted with approval.

U 2208 301
SOCIOLOGICAL RESEARCH METHOD I 3.0
Introduction to primary methods of gathering sociological data: experimentation, survey research, participant observation, etc. Use of computers to analyze data. The formulation of hypotheses, survey design, participant observation and the use of elementary statistics.

U 2208 302 3.0
SOCIOLOGICAL RESEARCH METHOD II 3.0
The formulation of hypothesis, survey design, participant observation and the use of elementary statistics; certain broad problems in the philosophy of social science.
Prerequisite: U 2208 301.

U 2208 303
LARGE SCALE ORGANIZATIONS 3.0
The structure and functions of bureaucracy in modern society; the life cycle of large organizations and their methods of operation; selected contemporary problems.

U 2208 304
SOCIOLOGY OF WORK AND PROFESSIONS 3.0
The development of modern forms of work; the shift from manufacturing to service occupations; and problems of work alienation; current models of labor management relations in the U.S. compared to Western Europe and Japan; the effects of new technology on skill, employment levels, and on labor management relations; conceptions of the professions and their role in society; the process of an occupation becoming a profession.

U 2208 310
DIRECTED INDEPENDENT RESEARCH 3.0-9.0
Research and report under faculty direction. The student selects for investigation an area of sociological concern with the approval of a faculty supervisor. Multiple semester selection permitted with approval.

U 2208 311
URBAN SOCIOLOGY 3.0
Processes of urbanization and suburbanization; nature of urban social relations, including racial and ethnic relations; urban ecological patterns and demographic conditions. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Requirement.

U 2208 313
SOCIOLOGICAL THEORY: A CRITICAL ANALYSIS 3.0
A comparison of important theories on key themes in sociology: the nature of social interaction, the definition of power, stratification, social control and deviance, alienation and anomie, social structure and function, social bases of knowledge and belief, and social conflict and change.

U 2208 314
STATISTICS FOR SOCIAL RESEARCH 3.0
The use of statistics to summarize data, to show relationships among variables. Evaluating research reports based on statistics. Use of the computer to analyze data.

U 2208 315
SOCIAL STRATIFICATION 3.0
The inequalities of social ranking systems in virtually all known societies. Theoretical and empirical approaches to stratification, delineating the variables of power, power elites, class consciousness, alienation and class mobility. Meets the Minorities Culture Requirement.

U 2208 320
SOCIOLOGY OF COMMUNES, COOPERATIVES AND COLLECTIVES 3.0
The sociology and history of communitarian ventures, with emphasis on contemporary communes, cooperatives, and collectives.

U 2208 321
WHITE COLLAR CRIME 3.0
An examination of the nature, scope, forms and styles of occupational and business-related criminal activities in the U.S., as well as its social, political and economic implications.

U 2208 322
JUVENILE DELINQUENCY AND JUVENILE JUSTICE 3.0
This course will deal with the major sociological explanations of juvenile delinquency. The relationship between juvenile crime and justice and the socio-economic and institutional arrangements of the larger society will be the primary focus.

U 2208 323
INTRODUCTION TO CRIMINAL JUSTICE 3.0
This course will examine the criminal justice system, and its agencies (police, courts, corrections), and analyze their function in contemporary society. It will focus on the means by which the system serves to reproduce a social order based on the unequal distribution of power, wealth and status; explore gender, race and class bias in the processing and imprisonment of offenders; and determine the system's role in the creation and maintenance of a "criminal" underclass. It will also consider the various subcultural worlds to which agency members, and their clients, belong, and the types of experience on which they are based.

U 2208 330
POLITICAL SOCIOLOGY 3.0
This course will endeavor to give the student a relatively complete understanding of the social dynamics of political actions on various levels.

U 2208 334
COMPARATIVE SOCIAL ANALYSIS 3.0
Comparative sociological schemes; the analytical blocks of total society. Kinship, family and marriage, policy and bureaucracy; social stratification and mobility; industrialization and urbanization; belief systems and value orientations.

U 2208 335
WORKERS AND THEIR ORGANIZATIONS 3.0
The course aims to provide the student with a general overview of the nature of work in modern society and of the ways in which workers react to it. In particular, the ways in which workers' organizations develop, and are shaped by community and political forces, will be an important focus.

U 2208 336
THE SOCIOLOGY OF HELPING PROFESSIONS AND INSTITUTIONS 3.0
This course focuses on the social functions, determinants, and consequences of helping professions such as social work, and helping institutions such as public welfare. Particular emphasis is placed on the relations of helping professions and institutions with their sociopolitical environment and with their clients.

U 2208 337
METHODS AND TECHNIQUES IN THE HELPING PROFESSIONS 3.0
This course focuses on the social processes involved in working with and helping people in such endeavors as social work and in such settings as hospitals. Particular emphasis is placed on understanding the dominant contemporary methods and techniques which are used to provide help to those in need.

U 2208 390
COOPERATIVE EDUCATION IN SOCIOLOGY 8.0
The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off campus, during which a student is supervised by a faculty coordinator and the office of cooperative education and is responsible for completing the terms of a learning contract.

U 2208 402
SOCIAL CONTEXTS OF MENTAL ILLNESS AND TREATMENT 3.0
Social conceptions of mental health and illness; social factors in the causes and treatment of mental illness. Mental institutions—their structures and ideologies. Comparative psychotherapies in social context; mental health personnel and professional ideologies; social movements and mental health and illness.

U 2208 403
SOCIOLOGY OF KNOWLEDGE 3.0
The interaction between the social structure, the ideas, beliefs, technology, and perceptions that prevail in society or in particular groups within society.

U 2208 404
SOCIOLOGY OF RELIGION 3.0
The social bases of religious belief and activity. Religious movements, denominationalism, sectarianism, secularization, pluralism, the social bases of belief and unbelief, and cross-cultural and historical comparisons.

U 2208 405
DEVIANCE AND SOCIAL CONTROL 3.0
Theoretical perspectives on human deviance. The social organization of specific types of deviance and of formal and informal social control.

U 2208 406
SOCIOLOGY OF SMALL GROUPS 3.0
Structured along lines of educational self-analytic groups. Students will learn about small group dynamics and interpersonal processes by studying the on-going interaction of the class as small groups.

U 2208 407
SOCIOLOGY OF MASS MEDIA 3.0
Television, press, film and other media—their social organization and how they function. Who the media influence—and how. Who influences the media—and how.

U 2208 408
SOCIAL MOVEMENTS 3.0
This course focuses on the study of concerted collective behavior for social change, or social movements. Various approaches to the understanding of social movements, including the natural history, case study, and analytical models, will be examined. Emphasis will be placed on relating theoretical work to contemporary empirical examples of social movement activity.

U 2208 410
SOCIAL ACTION PRACTICUM 3.0-9.0
Students, individually or in groups, design and implement field research and activity with an explicit, culturally defined objective, as an exercise in "applied sociology".

U 2208 411
SELECTED TOPICS IN SOCIOLOGICAL THEORY 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to only the general area of sociological theory.

U 2208 412
SELECTED TOPICS IN SOCIOLOGICAL RESEARCH METHODS 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to projects or study in research methodology.

U 2208 413
SELECTED TOPOICS IN INSTITUTIONAL PROCESSES 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to a consideration of problems in institutional processes.

U 2208 414
SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to the application of sociological methodology, theory or content to social situations, or to community issues or problems.

U2208 420
SOCIOLOGY OF LAW 3.0
The impact of the social usages of law on all levels of operation as an instrument of social policy, social control and social regulation.

U 2208 421
SOCIAL USES OF LANGUAGE 3.0
The functions of language in everyday life. The sociology of language applied to other social phenomena such as social change, religion, stratification, gender roles, and power.

U 2208 430
SOCIOLOGY OF SEX ROLES 3.0
The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion. Special emphasis is placed on the impact of social change on sex roles in contemporary society.

Spanish and Italian

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Vincenzo Bollettino

The major in Spanish or Italian develops sound scholarship by helping the student acquire linguistic fluency along with an understanding of Italian and Hispanic cultures.

Candidates for the B.A. choose an area of study in the Italian language, literature and culture; the Spanish language, Peninsular Spanish literature and culture and Spanish American literature and culture. The department offers courses for teacher certification in Spanish and Italian and a concentration in translating and interpreting in Spanish.

Majors are urged to spend a year, a semester, or a summer studying in Italy or a Spanish speaking country. This study should be planned for the junior year. Majors who intend to pursue graduate studies are advised to acquire proficiency in at least one additional language.

Students may minor in Italian or Spanish; select second teaching fields in either language; or pursue interdisciplinary minors in Hispanic community affairs or paralegal studies. In addition, a minor program in Portuguese studies is offered.

Spanish Major

Required Courses

		Semester Hours
24 semester hours:		
1105 141	Grammar and Composition I	3
1105 142	Grammar and Composition II	3
1105 151	Masterpieces of Spanish Literature I	3
1105 152	Masterpieces of Spanish Literature II	3
1105 161	Masterpieces of Spanish-American Literature I	3
1105 162	Masterpieces of Spanish-American Literature II	3
1105 260	Spanish Cultural History	3
1105 270	Spanish-American Cultural History	3

Electives (Major)

Select 12 semester hours with at least two courses from literature and one from language. Obtain elective list from the department.

Spanish Minor

Required Courses

		Semester Hours
18 semester hours:		
1105 141	Grammar and Composition I	3
1105 142	Grammar and Composition II	3
1105 152	Masterpieces of Spanish Literature II	3
1105 162	Masterpieces of Spanish-American Literature II	3
1105 260	Spanish Cultural History	3
or		
1105 270	Spanish American Cultural History	3

Electives (Major)

Select 3 semester hours in a literature course.

Hispanic Community Affairs Minor

Required Courses

1105 472	Puerto Rican Literature and Thought	3
or		
1105 280	Cuban Cultural History	3

Electives

Select 12 semester hours in courses from the interdepartmental list obtained from the department of Spanish and Italian.

Field Work

		Semester Hours
Select 3 courses		
1105 360	Hispanic Community Program	3
1105 481	Field Work I	3
1105 482	Field Work II	3
1105 483	Field Work III	3

Paralegal Studies Minor

The Paralegal Studies Minor, in combination with any number of diverse majors, prepares the student to work in many legally-related fields. This ABA approved program is 24 semester hours. An optional Hispanic specialization, through internship and training offered in the Spanish department, is available to students fluent in Spanish. For a complete description of the Paralegal Studies Program, contact the Center for Legal Studies.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. As part of the professional sequence students must take 1105 419 The Teaching of Spanish in Secondary Schools.

Second Teaching Field in Spanish

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Required Courses

		Semester Hours
24 semester hours:		
1105 141	Grammar and Composition I	3
1105 142	Grammar and Composition II	3
1105 209	Introduction to Spanish Phonetics	3
1105 260	Spanish Cultural History,	3
or		
1105 270	Spanish-American Cultural History	3
1105 309	Spanish Conversation	3
1105 410	Advanced Spanish Grammar	3

Electives (Major)

Select 6 semester hours in literature courses from the appropriate list to be obtained from the department.
Additional requirements may be obtained from the department.
Note: If a student has not studied a methods course in foreign language teaching, it is necessary to take 1105 419, The Teaching of Spanish in Secondary Schools.

Concentration in Translating and Interpreting

Required Courses

		Semester Hours
1105 350	Translating I	3
1105 351	Translating II	3
1105 452	Translating III	3
1105 450	Introduction to Interpreting	3

The concentration in translating and interpreting is designed to enhance the preparation of Spanish majors who are considering careers in diplomatic service, business, social service or law or who have an interest in literary translation.

Students who have successfully completed Translating III are eligible to take the certification examination given each year in May.

Portuguese Minor

Course Offerings

1198, 101, 102	Portuguese I and II (beginning level)	3
1198, 103, 104	Portuguese III and IV (intermediate level)	3
1198 141, 142	Portuguese Grammar and Composition I and II (advanced level)	3 ea.
1198 160	Masterpieces in Portuguese Literature	3
1198 162	Masterpieces in Brazilian Literature	3
1198 221	Commercial Portuguese	
1198 260	Luso-Brazilian Culture	3
1198 350	Translating I	
1198 385	Cooperative Education	

For a minor in Portuguese, a student selects 18 semester hours from 1198 103 and above.

Italian Major

Required Courses

18 Semester hours:		
1104 141	Italian Grammar and Composition I	3
1104 142	Grammar and Composition II	3
1104 260	Italian Cultural History	3
1104 240	Italian Literature: Origins to 18th Century	3
1104 241	Italian Literature: 18th to 20th Centuries	3

Electives (Major)

Select 21 semester hours from the appropriate list obtained from the department with at least one course from literature and one from language.

Italian Minor

Required Courses

18 semester hours:		
1104 141	Italian Grammar and Composition I	3
1104 142	Grammar and Composition II	3
1104 260	Italian Cultural History	3
1104 240	Italian Literature: Origins to 18th Century	3
1104 241	Italian Literature: 18th through 20th Centuries	3

Elective

Select 3 semester hours from the appropriate list obtained from the department.

Teacher Certification

Students interested in teaching Italian must be admitted to the Teacher Education program. See the department of Curriculum and Teaching for admission requirements and professional sequence. As part of the professional sequence for Italian this course must be taken:

1104 419	The Teaching of Italian in Secondary Schools	3

Second Teaching Field in Italian

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

24 semester hours:		
1104 141	Italian Grammar Composition I	3
1104 142	Italian Grammar and Composition II	3
1104 260	Italian Cultural History	3
1104 209	Italian Conversation	3
1104 240	Italian Literature: Origins to 18th Century	3
1104 241	Italian Literature: 18th through 20th Centuries	3
1104 410	Italian Grammar for Teachers	3

Elective

Select 3 semester hours from the appropriate list obtained from the department.

Additional requirements may be obtained from the department.

Note: If a student has not studied a methods course in foreign language teaching, it is necessary to take 1104 419, The Teaching of Italian in Secondary Schools.

Courses of Instruction

V 1104 101
ITALIAN I 3.0
For students with no previous knowledge of Italian. This course imparts the basic foundations in the language.

V 1104 102
ITALIAN II 3.0
Training in understanding, speaking, reading and writing the language. A continuation of Italian I
Prerequisite: V 1104 101 or equivalent.

V 1104 103
ITALIAN III 3.0
A continuation of Italian II to strengthen the four language skills.
Prerequisite: V 1104 102 or equivalent.

V 1104 104
ITALIAN IV 3.0
A continuation of Italian III to strengthen the basic language skills through reading and composition.
Prerequisite: V 1104 103 or equivalent.

V 1104 141
ITALIAN GRAMMAR AND COMPOSITION I 3.0
Gives students better control of the structure of the language through written and oral practice. Required for majors.
Prerequisite: V 1104 104 or equivalent.

V 1104 142
GRAMMAR AND COMPOSITION II 3.0
Mastery of the language through written and oral exercises. Review of advanced grammar. Required for majors.
Prerequisite: V 1104 141.

V 1104 209
ITALIAN CONVERSATION 3.0
Practice in spoken Italian through assigned topics and discussions about daily life and world events. An opportunity to acquire an adequate vocabulary and competence in Italian as an instrument or oral expression.
Prerequisite: V 1104 104.

V 1104 221
COMMERCIAL ITALIAN 3.0
The course has been prepared for students majoring or minoring in Italian, or who can demonstrate appropriate linguistic ability in Italian, who wish to study the vocabulary, protocol and styles of correspondence, and documents common to the Italian-speaking business world.
Prerequisite: V 1104 142 or equivalent.

V 1104 240
STUDIES IN ITALIAN LITERATURE ORIGINS TO 18th CENTURY 3.0
Representative works from the Scuola Sicilians to the 18th century analyzed and discussed. Required for major.
Prerequisite: V 1104 104.

V 1104 241
STUDIES IN ITALIAN LITERATURE: 18th THROUGH 20th CENTURIES 3.0
Representative works of the 18th through 20th centuries analyzed and discussed to prepare students for the analysis of literary works. Required for majors.
Prerequisite: V 1104 104.

V 1104 260
ITALIAN CULTURAL HISTORY 3.0
This course is designed to acquaint the students with the complex and rich texture of Italian civilization from its beginnings to the present. The development of Italian arts, music and theater as well as major social and political institutions, religion, etc., will be considered against the background of Italian history. Required of majors.
Prerequisite: V 1104 104.

V 1104 275
ITALIANS AND ITALIAN-AMERICANS: COMPARATIVE STUDIES 3.0
This course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work and moral codes. Comparisons are made with experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach. (Taught in English.) Cross-listed as K 4903 176 and 3 0821 275.

V 1104 277
ITALIAN LITERATURE OF THE 18th CENTURY 3.0
Representative works of the most important writers of this century: Goldoni, Parini, Alfieri, and others will be read and analyzed.
Prerequisite: V 1104 240.

V 1104 341
ITALIAN LITERATURE OF THE RENAISSANCE I 3.0
The development of humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. Emphasis on select works of Petrarch and Boccaccio.
Prerequisites: V 1104 240, 1104 241.

V 1104 342
ITALIAN LITERATURE OF THE RENAISSANCE II 3.0
The development of humanism in Italy through; a study of significant works of representative authors of the 14th, 15th and 16th centuries. Selected readings from Lorenzo de Medici, Poliziano, Pulci, Boiardo, Ariosto, Tasso, Machiavelli and others.
Prerequisites: V 1104 240 and 241.

V 1104 350
TRANSLATING 3.0
The course will cover general theoretical and philosophical problems of translation and specific problems encountered in the actual translation of different types of texts ranging from literary works to daily communications.
Prerequisite: V 1104 142.

V 1104 351
ITALIAN LITERATURE OF THE 20th CENTURY I 3.0
Particular attention to the contemporary period. Pirandello, Saba, Ungaretti, Montale, and Quasimodo.
Prerequisite: V 1104 241.

V 1104 352
ITALIAN LITERATURE OF THE 20th CENTURY II 3.0
Particular attention to the contemporary period. Pavese, Moravia, Silone, Vittorini, and others.
Prerequisite: V 1104 241.

V 1104 362
ITALIAN LITERATURE OF THE 19th CENTURY II 3.0
Neo-classicism, romanticism, and verismo. Carducci, Pascoli, Verga, and D'Annunzio.
Prerequisite: V 1104 241.

V 1104 371
ITALIAN LITERATURE OF THE 13th and 14th CENTURIES 3.0
The most important representatives of the Sicilian and Tuscan Schools, with particular attention to the Dolce Stil Novo and the works of Dante.
Prerequisite: V 1104 240.

V 1104 375
STUDY ABROAD 3.0
Study at an Italian university. Opportunity to gain first hand knowledge of the historical, social, economic and cultural life of Italy. Credit by evaluation.
Prerequisite: Permission of department chairperson.

V 1104 385
COOPERATIVE EDUCATION 4.0-8.0
This course provides an opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior or senior standing, 3.00 cumulative grade point average in Spanish courses, department coordinator's permission, department chairperson's permission, and approval of office of cooperative education.

V 1104 410
ITALIAN GRAMMAR FOR TEACHERS 3.0
A review of the most important structural features of Italian with special emphasis on those areas of interference with English which present the greatest difficulties for the student of Italian. Open to all Italian majors.
Prerequisite: V 1104 142.

V 1104 419
THE TEACHING OF ITALIAN IN SECONDARY SCHOOLS 3.0
Aims, objectives, and methods of teaching Italian in secondary schools; textbooks, supplementary teaching material, the language laboratory, tests, etc.
Prerequisites: V 1104 240, 241, senior standing.

V 1104 461
DANTE SEMINAR I 3.0
Medieval thought as represented in Dante's works. A selection of readings from Vita Nova, Convivo, Monarchia. Analysis and exegesis of Inferno.
Prerequisites: V 1104 240, V 1104 241.

V 1104 462
DANTE SEMINAR II 3.0
Medieval thought as reprsented in Dante's works. A selection of readings from Vita Nova, De Vulgari Eloquentia, Convivum, and Divina Commedia read and analyzed.
Prerequisites: V 1104 240, V 1104 241.

V 1104 470 3.0
The techniques of literary research based on selected topics from Italian literature.
Prerequisite: Senior majors only.

V 1104 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Italian. Open to students with a minimum of 3.0 cumulative average in at least 9 hours of Italian electives.
Prerequisites: 24 hours of major Italian credits.

V 1105 101
SPANISH I 3.0
For students with no previous Spanish. Training in understanding, speaking and writing the language.

V 1105 102
SPANISH II 3.0
Training in understanding speaking, reading and writing the language. A continuation of Spanish I.
Prerequisite: V 1105 101 or equivalent.

V 1105 103
SPANISH III 3.0
A continuation of Spanish II to strengthen the language skills of understanding, speaking, reading and writing of the language.
Prerequisite: V 1105 102 or equivalent.

V 1105 104
SPANISH IV 3.0
A continuation of Spanish III to strengthen the skills of understanding, speaking, reading and writing of the language.
Prerequisites: V 1105 103, V 1105 120 or equivalent.

V 1105 141
SPANISH GRAMMAR AND COMPOSITION I 3.0
This course is designed to give students an active command of the language by means of oral and written exercises, accompanied by a thorough review of the grammar, vocabulary, and idioms. Required for majors.
Prerequisite: V 1105 140 or equivalent.

V 1105 142
SPANISH GRAMMAR AND COMPOSITION II 3.0
This course is designed to improve the student's mastery of the language through written and oral exercises accompanied by a review of advanced grammar. Required for majors.
Prerequisite: V 1105 141.

V 1105 150
INTRODUCTION TO HISPANIC LITERATURE 3.0
The course proposes to identify the characteristics of various literary genres and define the inner workings of a piece of literature. Selections from the epic poem, the ballad, drama, satirical essays, philosophical novels, etc., will be used to enable the student to define the uniqueness of each genre. Certain forms of literature such as the *jarcha, romance, zerjel,* peculiar to the Spanish literary tradition will also be analyzed. The role of the author, the uses of images and irony, the narrative point of view, etc., will be stressed as essential to literary criticism. Required for majors.
Prerequisite: V 1105, 132, or 140, or equivalent.

V 1105 151
MASTERPIECES OF SPANISH LITERATURE I 3.0
The course is designed to introduce the students to Spain's literary history through an analysis of its major works, movements, and cultural trends from the medieval period to 18th century. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.

V 1104 152
MASTERPIECES OF SPANISH LITERATURE II 3.0
The course is designed to introduce the student to Spain's literary history through an analysis of its major works, movements, and cultural trends from 18th century to the present. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.

V 1105 161
MASTERPIECES OF SPANISH-AMERICAN LITERATURE I 3.0
The aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from pre-Columbian times to the latter part of the 19th century. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.

V 1105 162
MASTERPIECES OF SPANISH-AMERICAN LITERATURE II 3.0
The aim of the course is to give the student a comprehensive understanding of Spanish-American literature from the beginning of modernism to the contemporary period. Required for majors.
Prerequisite: V 1105 104, 140 or equivalent.

V 1105 209
INTRODUCTION TO SPANISH PHONETICS 3.0
Spanish phonetics and phonemics: theory and practice. Comparative analysis of Spanish and English phonology. The language laboratory is used extensively. Required for teacher certification.
Prerequisite: V 1105 104 or V 1105 140.

V 1105 221
COMMERCIAL SPANISH 3.0
For students interested in the business field: styles of letter writing, business vocabulary, legal terminology. Emphasis on written fluency and expression.
Prerequisite: V 1105 141.

V 1105 260
SPANISH CULTURAL HISTORY 3.0
The political, social, philosophical, literary and artistic ideas and institutions of Spain. Required for majors.
Prerequisites: V 1105 104 or V 1105 140.

V 1105 265
THE SPANISH-AMERICAN NOVEL 3.0
Development of the Spanish-American novel up to 1945.
Prerequisites: V 1105 161, 162.

V 1105 270
SPANISH-AMERICAN CULTURAL HISTORY 3.0
Development of the politics, art and philosophy of the Spanish-speaking nations of the western hemisphere. Required for majors.
Prerequisites: V 1105 104 or V 1105 140.

V 1105 280
CUBAN CULTURAL HISTORY 3.0
A survey of the Cuban cultural development from the time of the discovery of Cuba to the present. This course is especially designed to acquaint the Cuban born or the Cuban-American student with his cultural roots and to inform other interested Hispanic and Anglo-American students about the cultural heritage of Cuba.
Prerequisite: V 1105 104, 140 or equivalent.

V 1105 309
SPANISH CONVERSATION 3.0
Practice in spoken Spanish through assigned topics and participation in discussions about daily life and world events. Gives a competence in Spanish as an instrument of oral expression. Classes limited to 16 students. Required for teacher certification. Native speakers of Spanish must substitute another elective.
Prerequisite: V 1105 142.

V 1105 340
MIDDLE AGES IN SPAIN 3.0
Medieval Spanish masterpieces will be selected as basic topics around which the background that made them possible will be studied in an effort to bring to light the intricate relationship between the outstanding men of letters and their times.
Prerequisites: V 1105 151, 152.

V 1105 350
TRANSLATING I 3.0
Introduction to the techniques of translating Spanish/English and English/Spanish. Students translate actual documents and texts from a wide variety of fields in order to gain experience in methods of analysis, research and verification.
Prerequisites: V 1105 141, 142.

V 1105 351
TRANSLATING II 3.0
A continuation of Translating I. Materials chosen for translation reflect the career interests of the students in the class. Emphasis on professional ethics and the rudiments of translation theory.
Prerequisite: V 1105 350.

V 1105 352
PRACTICUM IN TRANSLATING 3.0
This course is designed to provide students with the practical experience of translating in semi-professional situations under faculty supervision.
Prerequisite: V 1105 350.

V 1105 360
HISPANIC COMMUNITY PROGRAM 3.0
Interdisciplinary approach to field work in an area of the Spanish-speaking communities in New Jersey: Internships in Law, Psychology, and Social Awareness. Open to any student in the college with a working knowledge of Spanish.
Prerequisite: Permission of instructor.

V 1105 365
SPANISH NOVEL OF THE 20th CENTURY 3.0
The modern novel in Spain beginning with the Generacion Del '98.
Prerequisites: Y 1105 151, 152.

V 1105 368
CONTEMPORARY SPANISH AMERICAN SHORT STORY 3.0
Trends in the contemporary short story. The short story as an important genre in Spanish American letters.
Prerequisites: V 1105 161, 162.

V 1105 370
CONTEMPORARY SPANISH AMERICAN POETRY 3.0
A study of contemporary Spanish American poetry from its roots in modernism to the present day.
Prerequisites: V 1105 161, 162.

V 1105 371
SPANISH POETRY AND DRAMA OF THE 19th CENTURY 3.0
A critical study of the main works of this century beginning with Duque de Rivas and Espronceda through Galdós.
Prerequisites: V 1105, 151, 152.

V 1105 375
STUDY ABROAD 3.0
Study at a university in a Spanish-speaking country to gain firsthand knowledge of the historical, social, economic and cultural life.
Prerequisites: Permission of department chairperson. Credit by evaluation.

V 1105 385
COOPERATIVE EDUCATION 4.0–8.0
This course provides opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior or senior standing, 3.00 cumulative grade point average in Spanish courses, department coordinator's permission, department coordinator's permission, department chairperson's permission, and approval of office or cooperative education.

V 1105 410
ADVANCED SPANISH GRAMMAR 3.0
This course is a review of the most important structural features of Spanish, with special emphasis in those areas of interference with English structure which present the greatest difficulties to the student of Spanish. Required for teacher certification. Open to all Spanish majors.

V 1105 419
THE TEACHING OF SPANISH IN SECONDARY SCHOOLS 3.0
Values and aims in foreign language teaching, survey of methods, pronunciation, reading, grammar, reviews, realia, examinations, supervised study, etc. Readings and discussions, lesson planning and demonstrations, and organization of material for student teaching. Required for certification.
Prerequisite: Senior standing.

V 1105 450
INTRODUCTION TO INTERPRETING 3.0
This course is designed to teach students the specialized techniques of oral interpreting and to prepare them for a career in the field. Visits to observe professional interpreters at work will be arranged.
Prerequisites: V 1105 350, 351.

V 1105 452
TRANSLATING III 3.0
Under careful supervision, the student will prepare a translation project, usually consisting of the translation of a text of approximately 50 typewritten pages.
Prerequisites: V 1105 350, 351.

V 1105 460
EL QUIJOTE 3.0
The literary and social background, structure, themes and style of El Quijote.
Prerequisites: V 1105 151, 152.

V 1105 465
SPANISH THEATRE OF THE 20th CENTURY 3.0
Principal trends of the Spanish theatre from Benavente to the contemporary dramatists.
Prerequisites: V 1105 151, 152.

V 1105 470
SENIOR SEMINAR 3.0
Selected topics from Spanish and Spanish-American literature are studied in depth.
Prerequisite: Senior majors only or permission of instructor.

V 1105 471
CONTEMPORARY TRENDS IN THE SPANISH-AMERICAN NOVEL 3.0
The contemporary novel in Spanish America, with emphasis on the Nueva Novela.
Prerequisite: V 1105 162.

V 1105 472
PUERTO RICAN LITERATURE AND THOUGHT 3.0
Insight into the literature and philosophy of the Caribbean Hispanic world; contemporary Puerto Rican writers and the Puerto Rican influence in the United States.
Prerequisites: V 1105 161, 162.

V 1105 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Spanish. Open to students with a 3.0 cumulative average in at least 9 semester hours of Spanish electives.
Prerequisites: 24 hours of major Spanish credit.

V 1105 481
FIELD WORK IN HISPANIC COMMUNITY I 3.0
Required course in the academic minor in Hispanic community affairs. Students will devote 90 hours work in the area in which they choose to concentrate: child care centers, mental health clinics, recreation activities, social agencies, etc. In addition, the students must carry out an independent project related to their work. Not for major credit.
Prerequisite: V 1105 360.

V 1198 101
PORTUGUESE I 3.0
For students with no previous knowledge of Portuguese. Training students to understand, speak, read and write the language.

V 1198 102
PORTUGUESE II 3.0
A continuation of Portuguese I, furthering the training in the understanding, speaking, reading and writing of the language.
Prerequisite: V 1198 101 or equivalent.

V 1198 103
PORTUGUESE III 3.0
Strengthening the basic language skills established in Portuguese II through advanced grammar and selected readings.
Prerequisite: V 1198 102 or equivalent.

V 1198 104
PORTUGUESE IV 3.0
A continuation of Portuguese III, to strengthen basic language skills through advanced grammar and selected readings.
Prerequisite: V 1198 103 or equivalent.

V 1198 141
PORTUGUESE GRAMMAR AND COMPOSITION I 3.0
Advanced course on Portuguese grammar to afford student an opportunity to practice in composition and conversation such points of structure and usage as sentence construction, agreement, prepositions, sequence of tenses, the subjunctive, and uses of ser and estar.
Prerequisite: V 1198 104.

V 1198 142
PORTUGUESE GRAMMAR AND COMPOSITION II 3.0
This course continues the examination and review of grammatical structures and usage, and provides the students further opportunity to perfect their writing and speaking abilities in Portuguese.
Prerequisite: V 1198 141.

V 1198 160
MASTERPIECES IN PORTUGUESE LITERATURE 3.0
An intensive study of representative works by the most important authors of each major period in Portuguese literature.
Prerequisite: V 1198 104.

V 1198 162
MASTERPIECES IN BRAZILIAN LITERATURE 3.0
An intensive study of representative works by the most important authors of each major period in Brazilian literature.
Prerequisite: V 1198 104.

V 1198 260
LUSO-BRAZILIAN CULTURE 3.0
Portuguese and Brazilian literary masterpieces will be used as the basis for examining and understanding the distinctive cultural mores, values, and perceptions in the evolution of Portugal and Brazil.
Prerequisites: V 1198 142, 260.

V 1198 385
COOPERATIVE EDUCATION 4.0–8.0
This course provides an opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior and senior standing, 3.0 cumulative grade point average in Spanish courses, department coordinator's permission, department chairperson's permission, and approval of office of cooperative education.

K 4903 161
MAGIC REALISM IN SPANISH AMERICAN LITERATURE 3.0
A study of magic realism as manifested in representative works of contemporary Spanish American fiction. Works to be read in English translation. Taught in English. Not for major credit.



Speech and Theatre

SCHOOL OF FINE AND
PERFORMING ARTS
Chairperson: Gerald Lee Ratliff

The Department of Speech and Theatre prides itself on its academic and professional curricula, the exceptional quality of its faculty and the success of its graduates. Because its programs feature both liberal arts and professional training—the cultural legacy which influences all worthwhile quality education—student majors are afforded ample opportunities to participate in meaningful learning experiences and are given increasing responsibility as their training proceeds.

The Bachelor of Arts degree has four concentrations for those interested in the broadbased, academic approach to liberal arts education: broadcasting, communication studies, theatre and teacher education. Each concentration requires a successful interview for admission to the program.

The Bachelor of Fine Arts degree has three concentrations for those interested in pursuing a professional performance or design career: acting, dance and design/technical theatre. Each concentration requires a successful audition or portfolio review for admission to the program.

The Department of Speech and Theatre also requires an interview for those interested in a minor in any of the following programs of study: communication studies, dance, speech and theatre or theatre. The dates and requirements for department admission and interviews/auditions may be obtained from the Admissions Office or by calling the Department of Speech and Theatre at (201) 893-4217.

Special features of the academic program include specialized internships, performance ensembles, Major Theatre Series, Telerad, Studio Theatre Series, Communication Studies Organization, Dance Repertory Company, Speech Labs and Studio Concert Series. The Department of Speech and Theatre is an accredited institutional member of the National Association of Schools of Theatre (NAST) and National Association of Schools of Dance (NASD).

Speech and Theatre Major (all B.A. and B.F.A. concentrations)

Required Course (Basic Core) All majors and concentrations

		Semester Hours
1506 103	Voice and Speech Improvement	3
*1007 100	Introduction to Theatrical Medium	3

*Required of B.A. and B.F.A. Theatre

Concentration Requirements—B.A.
Concentration Requirements—B.F.A.
Department Electives

Speech and Theatre Major — B.A. Concentrations Within the Program

THEATRE

Required Courses

1506 103	Voice and Speech Improvement	3
1007 100	Introduction to Theatrical Medium	3
1007 208	Play Script Interpretation	3
1007 210	Theatre History: Classical to Elizabethan	3
1007 211	Theatre History: Restoration to Modern	3
1007 361	Dramatic Literature	3
1007 410	Seminar in Drama	3
1007 411	Dramatic Criticism	3
1007 122	Acting I	3
1007 123	Acting II	3
1007 150	Concepts of Theatrical Design	3
1007 330	Play Direction I	3

Theatre Practicum

Practicum in Costuming	1
Practicum in Construction	1
Practicum in Management	1
Practicum in Lighting	1
Practicum (Free Choice)	2

Collateral Courses

Select 6 semester hours from the appropriate list of courses to be obtained from the department.

Electives (Theatre)

Select 9 semester hours from the appropriate list of courses to be obtained from the department.

Free Electives 22

Communication Studies

Required Courses

		Semester Hours
1506 103	Voice and Speech Improvement	3
1506 172	Principles of Human Communication	3
1506 271	Interpersonal Communication I	3
1506 234	Public Speaking	3
1506 334	Public Communication Techniques	3
1506 375	Nonverbal Communication	3
1506 374	Group Processes	3
1506 442	Argumentation and Debate	3
1506 160	Oral Interpretation of Literature	3
1506 438	Principles of Persuasion	3
1506 478	Applied Communication	3

Collateral Course

A 3 semester hour Business Writing course is the required collateral course. Obtain the appropriate course information from the department.

Major Elective

Select 3 semester hours from the appropriate list to be obtained from the department.

Free Electives 34

Broadcasting

Required Courses

1506 103	Voice and Speech Improvement	3
0603 101	Introduction to the Broadcasting Medium	3
0603 240	Writing for the Broadcasting Media	3
0603 251	Television Production I	3
0603 252	Television Production II	3
0603 241	Electronic Journalism	3
0603 222	Television Practicum	1
0603 150	Audio Production	3
0603 350	Television Production III	3

Select two:

0603 315	Political Broadcasting	3
0603 380	Cultural Impact of Broadcasting	3
0603 491	International Broadcasting	3
0603 460	Station Management	3

(Professional courses, by permission, also satisfy this requirement)

Major Electives

Select 9 semester hours from the appropriate list to be obtained from the department.

Free Electives 33

Teacher Certification

Students wishing to declare teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog.

In addition, the following requirements are part of the Department of Speech and Theatre teacher certification program.

		Semester Hours
1007 100	Introduction to Theatrical Medium	3
1506 103	Voice and Speech Improvement	3
1506 172	Principles of Human Communication	3
1506 271	Interpersonal Communication I	3
1007 122	Acting I	3
1007 150	Concepts of Theatrical Design	3
1007 210	Theatre History: Classical to Elizabethan	3
1506 302	Practicum in Speech Improvement	3
1007 330	Play Direction I	3
1506 374	Group Processes	3
1506 160	Oral Interpretation of Literature	3
1506 234	Public Speaking	3
1506 441	Group Discussion	3
1506 407	Methods of Teaching Speech and Theatre	3
1506 201	Communication in the Classroom	1
1007 201, 202, 203	Theatre Practicum	4

Free Electives 11

Theatre Major — B.F.A. Concentrations Within the Program

Acting

Required Courses

		Semester Hours
1506 103	Voice and Speech Improvement	3
1007 122	Acting I	3
1007 123	Acting II	3
1007 222	Acting III	3
1007 223	Acting IV (Character)	3
1007 322	Acting V (Style)	3
1007 125	Voice for the Performer I	3
1007 225	Voice for the Performer II	3
1007 325	Voice for the Performer III	3
1007 366	Stage Technique: Combat	3
1007 330	Play Direction I	3
1007 430	Play Direction II	3
1007 362	Stage Dialects	3
1007 435	Dramatic Workshop I	3
1007 201, 202, 203	Theatre Practicum I, II, III	8
1007 100	Introduction to Theatrical Medium	3
1007 150	Concepts of Theatrical Design	3
1007 208	Play Script Interpretation	3
1007 210	Theatre History: Classical to Elizabethan	3
1007 211	Theatre History: Restoration to Modern	3
1007 278	Stage Makeup	3
1007 371	History of Costumes	3
1008 141, 143	Modern Dance	4

Theatre Electives

Select 5 semester hour courses from the appropriate list to be obtained from the department.

Free Electives 14

Dance

1506 103	Voice and Speech Improvement	3
1008 150	Production Elements-Dance	2
1008 205	Rhythmic Analysis	3
1008 161	Choreography I	2
1008 261	Choreography II	2
1008 361	Choreography III	2
1008 315	Dance History: Primitive to 1850	3
1008 316	Dance History: 1850 to Present	3
1008 310	Movement Analysis	3
1008 321	Beginning Labanotation	3
1008 322	Intermediate Labanotation	3
*Dance Technique: Modern		24
*Dance Technique: Ballet		24
Dance Practicum *or* Dance Repertory		4
Theatre Practicum		1

*All dance technique classes in Modern and Ballet are by prior placement.

Theatre Collateral Course

A 3 semester hour theatre collateral course chosen from Costuming, Makeup or Lighting is required. Select from the appropriate list to be obtained from the department.

***Free Electives** 12

*No more than 4 semester hours may be in dance area.

Design/Technical Theatre

Required Courses

		Semester Hours
1506 103	Voice and Speech Improvement	3
1007 100	Introduction to Theatrical Medium	3
1007 150	Concepts of Theatrical Design	3
1007 160	Drawing and Rendering I: Theatre	3
1007 234	History of Decor	3
1007 252	Theatrical Design	3
1007 258	Fundamentals of Stage Lighting	3
1007 371	History of Costumes	3
1007 372	Introduction to Costume Design	3
1007 480	Seminar in Theatrical Conceptualization	3
1007 208	Play Script Interpretation	3
1007 210	Theatre History: Classical to Elizabethan	3
1007 211	Theatre History: Restoration to Modern	3
1007 330	Play Direction I	3
1007 201, 202, 203	Theatre Practicum I, II, III	8

Choose (1) of the Following Options:

Costume Option:

		Semester Hours
1001 220	Life Drawing I	3
1007 278	Stage Makeup	3
1007 370	Costume Construction I	3
1007 475	Costume Design II	3
1007 478	Advanced Stage Makeup	3

Design/Tech Option:

1007 245	Drafting I: Theatre	3
1007 250	Technical Theatre	3
1007 345	Stage Design	3
1007 352	Scene Painting	2
1007 458	Advanced Lighting	3

Major Electives

Select 20 semester hour courses from the appropriate list to be obtained from the department.

***Free Electives** 12

*Not to be taken with the Speech and Theatre Department

Minor Programs

Students wishing to pursue a minor in any academic program in the Department of Speech and Theatre and have it listed on their transcript must proceed as follows:

(1) Submit an application obtained from the Department office to the chairperson requesting status as a Minor Program student in the department.
(2) Schedule and complete an interview for acceptance into the minor program desired.
(3) Complete the Minor Program sequence.
(4) Request the Registrar during the senior year of study to certify on official college records the completion of a minor program of study.

Communication Studies (Minor)

		Semester Hours
1506 172	Principles of Human Communication	3
1506 103	Voice and Speech Improvement	3
1506 234	Public Speaking	3
1506 271	Interpersonal Communication I	3
1506 374	Group Processes *or*	
1506 441	Group Discussion	3
1506 438	Principles of Persuasion *or*	
1506 375	Nonverbal Communication	3

Dance (Minor)

1008 150	Production Elements-Dance	2
1008 161	Choreography I	2
1008 280	Dance Practicum	1
1008 315	Dance History: Primitive to 1850 *or*	
1008 316	Dance History: 1850 to Present	3
*Dance Technique: Modern		6
Dance Technique: Ballet		6

*Technique classes are by prior placement.

Speech and Theatre (Minor)

1506 103	Voice and Speech Improvement	3
1007 100	Introduction to Theatrical Medium	3
0603 105	Fundamentals of Broadcasting	3
1506 172	Principles of Human Communication	3
1008 105	Dance Appreciation	3
1506 160	Oral Interpretation of Literature or	
1506 234	Public Speaking	3

Theatre (Minor)

Students who wish to pursue a minor program in the Department of Speech and Theatre and have this accomplishment listed on the transcript must proceed as follows:

(1) Submit an application (may be obtained from the Department office) to the chairman requesting status as a Minor Program student in the Department of Speech and Theatre.
(2) Schedule and complete an interview for acceptance into the Minor Program for Theatre.
(3) The minimum standard for admission to the program is a grade point average of 2.75.
(4) Complete the Minor Program sequence.
(5) Request the Registrar during the senior year to certify on all official records your completion of a minor program of study.

		Semester Hours
I 1506 103	Voice and Speech Improvement	3
I 1007 100	Introduction to Theatrical Medium	3
I 1007 122	Acting I	3
I 1007 330	Play Direction I	3
I 1007 150	Concepts of Theatrical Design	3
I 1007 201	Theatre Practicum	1
I 1007 210	Theatre History: Classical to Elizabethan *or*	
I 1007 211	Theatre History: Restoration to Modern	3

Courses of Instruction

I 0603 101
INTRODUCTION TO THE BROADCASTING MEDIUM 3.0
The development, organization and operation of radio and television in modern society; social and cultural influence of commercial and educational broadcasting.

I 0603 105
FUNDAMENTALS OF BROADCASTING 3.0
The structure of the American Broadcasting Industry; broadcast production including making radio and television commercials and disc-jockey-format music programs. For non-broadcast majors only.

I 0603 140
WRITING FOR BROADCASTING MEDIA 3.0
Writing of continuity and dramatic materials for the broadcast media, including news, commercials, and drama, and practical work in ENG reporting and TV news producing. Students must concurrently enroll in I 0603 222, Television Practicum. Fees for 1½ hours of video taping. *Prerequisite: I 0603 101.*

I 0603 150
AUDIO PRODUCTION 3.0
The production of special projects, documentaries and actualities including studio and location recording techniques, editing of audio tape, program organization and techniques of interviewing.
Prerequisite: Majors only.

I 0603 151
PRINCIPLES OF TELEVISION PRODUCTION 3.0
Non-dramatic broadcast program materials and production with emphasis on producing, directing, performing, and operating equipment for simple program formats. Open to non-majors.

I 0603 180
ELEMENTS OF THE PUBLIC MEDIA 3.0
Media study and analysis, examining mass media as social, economic and political forces in contemporary cultures. Survey of the major mass media's structures, functions, operations, and problems.

I 0603 222
TELEVISION PRACTICUM 1.0
Closed circuit television production. Students participate in a minimum of 7 of the 14 weekly sessions. May be repeated.
Prerequisites: I 0603 251 or I 0603 252 or I 0603 350.

I 0603 241
ELECTRONIC JOURNALISM 3.0
Practical training in gathering, writing, and producing news for radio and television; development of ethical electronic journalistic standards and practices as reflected by major social issues.
Prerequisites: I 0603 140, I 0603 252.

I 0603 251
TELEVISION PRODUCTION I 3.0
The tools and techniques of television production applied to news, commercial, interview and demonstration programs.
Prerequisite: I 0603 101.

I 0603 252
TELEVISION PRODUCTION II 3.0
Group activity in the preparation and presentation of broadcast materials including plays, speeches, interviews, announcing, newscasting, music programming and advertising; the use of educational school broadcasting.
Prerequisite: I 0603 251.

I 0603 282
MEDIA AND CULTURE 3.0
The ways in which the broadcast media affect the mass culture and through it the values and mores of society. Includes history of mass culture and the mechanisms by which minority cultures and innovations can affect mass culture.

I 0603 315
POLITICAL BROADCASTING 3.0
An historical-critical introduction to radio and TV as related to political figures, institutions and issues: J.L. Lewis, F.D.R., McCarthy hearings, Nixon-Kennedy debates and political conventions.

I 0603 320
ACTING FOR TELEVISION 3.0
An introduction to the techniques necessary to adapt theatrical acting to television production situations, both multi-camera and single camera.
Prerequisites: I 1007 122, I 0603 252.

I 0603 350
TELEVISION PRODUCTION III 3.0
Two television productions written, produced and directed; production and direction of remote broadcasts.
Prerequisites: I 0603 251, I 0603 252.

I 0603 353
CHILDREN'S TELEVISION 3.0
Current children's productions and examination of research on their affect/effectiveness; work on class productions designed for children.
Prerequisite: I 0603 251.

I 0603 403
INDEPENDENT STUDY 1.0–3.0
Proposals must be submitted for departmental approval prior to registration for the course.

I 0603 440
NEWS PROGRAM PRODUCTION 3.0
Reporting, electronic newsgathering and editing, producing, directing, crew work, and news writing and editing with focus on production of a weekly color news program. Permission of instructor.
Prerequisites: I 0603 240 and I 0603 350.

I 0603 450
ELECTRONIC FIELD PRODUCTION
AND POST-PRODUCTION 3.0
Methods of electronic field production and post-production, including operation of color E.F.P. equipment and ¾ inch color video editing equipment, planning and development of shooting script. Production of programs.
Prerequisites: I 0603 350 and permission of instructor.

I 0603 460
STATION MANAGEMENT 3.0
Economic support patterns; evolution of broadcast programming; determining community needs; on-air operations; station promotion and advertising; legal and ethical questions relating to broadcasting.
Prerequisites: I 0603 251, I 0603 252.

I 0603 470
SPECIAL STUDIES IN BROADCASTING 3.0
The theory and actual current practice in the business, managerial and/or legal aspects of the broadcasting industry as provided by practicing professionals in the field. This course may be repeated for credit.
Prerequisites: I 0603 252, instructor's permission, majors only.

I 0603 490
INTERNSHIP: BROADCASTING 4.0–16.0
Advanced students may pursue a portion of their major work under the supervision of a professional or a contract company. Departmental eligibility and approval requried prior to registration.

I 0603 491
INTERNATIONAL BROADCASTING 3.0
Major broadcasting systems including those of England, Canada, Japan, Russia, Germany, France and Italy. Voice of America, Radio Free Europe, Missionary radio, group listening and viewing systems.
Prerequisite: I 0603 101.

I 0603 495
ETHICS AND LAW OF MASS COMMUNICATION 3.0
A survey and analysis of major legal and ethical issues in broadcasting and mass communication. Open to all.

I 1007 100
INTRODUCTION TO THEATRICAL MEDIUM 3.0
All forms of theatrical literature and productions including drama, ballet, mime, opera, circus, musical comedy and mass media.

I 1007 120
MOVEMENT FOR THE ACTOR 3.0
Uninhibited movemet for the actor and others in music, dance and mime exploring and developing functional and expressive movement.

I 1007 122
ACTING I 3.0
Basic techniques of theatrical communication involving one's self completely; doing and experiencing inwardly; deepening the personal involvement and significance of actions; improvisation and exercises for perception, self-awareness and justification.

I 1007 123
ACTING II 3.0
Extension of the actor's self into characterization; learning to physicalize (or externalize) the psychological elements and characters so that they are projected to an audience. Script analysis, in which the student develops the discipline of using clues in the script to fulfill the author's intensions. Work on scenes, applying the foregoing techniques.
Prerequisite: I 1007 122.

I 1007 125
VOICE FOR THE PERFORMER I 3.0
The voice skills necessary for the actor. Intensive work directed toward classic and modern styles in stage diction.
Prerequisites: I 1506 103, instructor's permission.

I 1007 150
CONCEPTS OF THEATRICAL DESIGN 3.0
A general introduction to theatrical design concerned, primarily, with developing a sense of theatrical style and form. Problems of translating a dramatic text into an overall design concept, and the evolution into specific setting, lighting, or costume designs.

I 1007 160
DRAWING AND RENDERING I: THEATRE 3.0
A drawing and painting course aimed at developing skills necessary for rendering stage designs on paper. Perspective drawing, badic water color technique, color theory, and architectural sketching are included.
Prerequisite: I 1007 150.

I 1007 201
THEATRE PRACTICUM I 1.0
On or off stage experience in departmental productions. May be repeated.

I 1007 202
THEATRE PRACTICUM II 1.0
Continuation of 1007 201. May be repeated.

I 1007 203
THEATRE PRACTICUM III 1.0
Continuation of 1007 202. May be repeated.

I 1007 204
THEATER PRACTICUM IV 1.0
Continuation of 1007 203.

I 1007 208
PLAY SCRIPT INTERPRETATION 3.0
An evaluation of the playscript in terms of the literary, technical, and production elements essential to mounting the script for performance; a consideration of both the fictional and the functional elements of playscripts.

I 1007 210
THEATRE HISTORY: CLASSICAL TO ELIZABETHAN 3.0
The development of the theatre from the classical Greek through the Elizabethan period; attention to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations. Oral reports, lectures and demonstrations.

I 1007 211
THEATRE HISTORY: RESTORATION TO MODERN 3.0
The development of the theatre from the restoration through the modern period; attention to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations of the period. Oral reports, lectures and demonstrations.

I 1007 222
ACTING III 3.0
Strengthing the actor's controls and extending his boundaries. More challenging roles; period plays and the problem of style.
Prerequisites: I 1007 123 or instructor's permission.

I 1007 223
ACTING IV (CHARACTER) 3.0
Extending the range of characterization by modifying and controlling physical and vocal characteristics, and by studying how clothing, manners and modes of other periods affect behavior. Exercises in animal and object controls and in using adjustments; application in scenes.
Prerequisite: I 1007 222.

I 1007 225
VOICE FOR THE PERFORMER II 3.0
Intermediate study in the voice skills necessary for performance in a professional setting. Advanced work in voice production and vocal characterization directed toward performance styles and stage presentation.
Prerequisites: I 1007 125 and instructor's permission.

I 1007 234
HISTORY OF DECOR 3.0
The major architectural and decorative periods of the world and their influences and role in the theatre as applied to the designer.

I 1007 238
MUSICAL COMEDY 3.0
Production styles, techniques and dramatic conventions used in the musical theatre in relation to direction, music, dance, and design. The student will be expected to study all areas of the musical.
Prerequisites: I 1007 150, 330.

I 1007 245
DRAFTING I: THEATRE 3.0
Techniques in theatrical drafting that explore the mechanics of drafting through the solution of practical problems in floor planning, front and rear elevations; the use of different building techniques, materials and structures.
Prerequisite: I 1007 150.

I 1007 246
DRAFTING II: THEATRE 3.0
Advanced study in building, rigging, and stress problems related to theatre design and production. Advanced drafting techniques for theatrical designs.
Prerequisites: I 1007 150, 245.

I 1007 250
TECHNICAL THEATRE 3.0
An intensive study of technical theatre including the interpretation of design and technical drawings, scenic construction, rigging, and theatre organization.
Prerequisites: I 1007 150 or instructor's permission.

I 1007 252
STAGE DESIGN I 3.0
Interpretation of dramatic texts towards the realization of effective stage designs. Styles and principles will be explored as well as the complete process which translates visual concepts into stageworthy designs.
Prerequisites: I 1007 150, 160 or instructor's permission.

I 1007 258
FUNDAMENTALS OF STAGE LIGHTING 3.0
The functions of light on stage; the use of lighting equipment. Laboratory work done in the Memorial Auditorium.
Prerequisites: I 1007 150, 160.

I 1007 260
DRAWING AND RENDERING II: THEATRE 3.0
Advanced drawing and rendering for theatrical stage design. Includes color work and work with dye and ink.
Prerequisite: I 1007 160.

I 1007 278
STAGE MAKEUP 3.0
Makeup materials and their uses; creating corrective and character makeup, mustaches and beards for a cast. Research or creative experience to compile a practical resource file.

I 1007 322
ACTING V (STYLES) 3.0
Emphasis upon movement, decorum, costuming, and the theatrical environment of each major period of theatre history. Scene study for each period of theatre history. Special lectures by costuming and movement specialists.
Prerequisite: I 1007 223.

I 1007 324
THE PROFESSION OF ACTING (ACTING VI) 3.0
Consideration of the artistic and commercial demands of the professional theatre and preparation to meet those demands.
Prerequisite: Junior or senior theatre major.

I 1007 325
VOICE FOR THE PERFORMER III 3.0
Advanced study in the voice skills necessary for performance in a professional setting. Intensive work in voice production and vocal development necessary to develop selected performance styles and techniques.
Prerequisites: I 1007 225 and instructor's permission.

I 1007 330
PLAY DIRECTION I 3.0
Principles of direction, selection and casting; exercises in composition and movement; scenes directed for class criticism; preparation of prompt book.
Prerequisites: I 1007 122, 150.

I 1007 345
STAGE DESIGN II 3.0
A continuation of Stage Design I with emphasis upon specific forms of drama as well as opera and musical comedy.
Prerequisites: I 1007 242, 340.

I 1007 352
SCENE PAINTING 2.0
The theory and practice of the general techniques of the scenic artist and the methods and materials used in this discipline.
Prerequisites: I 1007 150, 242.

I 1007 361
DRAMATIC LITERATURE 3.0
Dramatic literature from the classical to the modern in terms of genre, theme, and performance potential; dramatic literature as it reflects its time.

I 1007 362
STAGE DIALECTS 3.0
Lecture and laboratory demonstration on sound substitutions, rhythms, and inflectional patterns used in creating effective stage dialects. Performance in standard British, Cockney, Irish, Scottish, French, Italian, German, and Spanish dialects.

I 1007 366
STAGE TECHNIQUE: COMBAT 3.0
Stage use of sword-play, hand-to-hand combat and combat choreography with broadsword, epee, cudgel and staff among others (generally offered as one of three modules with I 1007 365 and 367).
Prerequisite: I 1007 122.

I 1007 370
COSTUME CONSTRUCTION I 3.0
Studies the practical function of the costume shop and the techniques and crafts used in the execution of costumes for the stage. Production work is included.

I 1007 371
HISTORY OF COSTUMES 3.0
The evolution of costume and the development of tailoring; social, economic and political influences on silhouette and ornamentation. For advanced students of costume design and construction.

I 1007 372
COSTUME DESIGN I 3.0
A study of basic costume design for the stage, emphasizing the interpretation of dramatic texts in items of characterization. Basic figure drawing and fabric study are included and the collaborative process which translates ideas to finished design will be explored.
Prerequisite: I 1007 371

I 1007 391
PLAYWRITING 3.0
The creation of an original script suitable for production. The cause to effect play will be investigated as well as newer trends in theatre. Investigation of marketing possibilities and the preparation of scripts for submission. Students should have a background in the technique and artistic aspects of the theatre.

I 1007 403
INDEPENDENT STUDY 1.0–3.0
Proposals must be submitted for departmental approval prior to registration for the course.

I 1007 407
INTERNSHIP: DESIGN/TECHNICAL THEATRE 4.0–12.0
Practical experience as a member of a professional, semi-professional or educational theatre on or off campus; work as a technician or as an assistant to the designer or producer.
Prerequisite: Instructor's permission.

I 1007 409
SUMMER THEATRE:
PRODUCTION/PERFORMANCE 4.0–12.0
Practical experience as a member of a professional, semi-professional, or educational theatre on or off campus. The student works as an actor or as an assistant to the director, designer or producer.
Prerequisite: Department approval.

I 1007 410
SEMINAR IN DRAMA 3.0
Dramatic theory as it relates to production and performance. A series of research projects selected by the instructor to guide students in applying contemporary principles of play production to styles of performance; comprehensive and intensive study of playscripts and dramatic theories as they find expression in performance.
Prerequisite: I 1007 361.

I 1007 411
DRAMATIC CRITICISM 3.0
Dramatic principles of theme, content, and characterization as they relate to production and performance; evaluation and analysis of the basic ingredients of dramatic criticism as related to the critic, the director, the scenic artist and the performer.
Prerequisite: I 1007 361.

I 1007 430
PLAY DIRECTION II 3.0
Advanced play direction with emphasis on the director's analysis of the script and working with performers. Each participant will direct a variety of scenes and a one act play.
Prerequisites: I 1007 123, 330.

I 1007 431
PLAY DIRECTION III 3.0
Exploration of significant styles of production. Each participant will direct scenes in various period styles. A final stylistic project performed for an audience.
Prerequisites: I 1007 222, 430.

I 1007 433
SHAKESPEARE WORKSHOP 3.0
Analysis and performance of scenes from Shakespearean histories, comedies, and tragedies.
Prerequisites: I 1007 223, 330.

I 1007 435
DRAMATIC WORKSHOP I 3.0
An advanced course combining students as actors or directors engaged in research and performance of classical and contemporary styles of theatre in a works-in-progress atmosphere. Material will be drawn from the full spectrum of theatre.
Prerequisite: Two courses in directing and/or acting.

I 1007 436
DRAMATIC WORKSHOP II 3.0
A continuation of dramatic workshop providing advanced research, exploration and performance for acting-directing experimentation with various modes such as readers' theatre, story theatre and environmental theatre. Problems of adaptation of plays of one period into other periods and of non-theatrical material into a theatrical form.
Prerequisite: I 1007 435.

I 1007 440
SENIOR PROJECT: DESIGN/TECHNICAL THEATRE 3.0
Topics for investigation in the area of design and technical theatre.
Prerequisites: Majors only; instructor's permission.

I 1007 442
THEATRICAL MODEL MAKING 3.0
Three-dimensional design in theatrical model making. Exploration of the creative design process in working with construction models executed in paper, cardboard and clay.
Prerequisites: I 1007 245, 252.

I 1007 445
STAGE DESIGN III 3.0
Advanced work in design including model-making and exploration of non-prescenium forms of presentation.
Prerequisites: I 1007 150, 242.

I 1007 458
ADVANCED LIGHTING 3.0
Advanced lighting skills in theatre and the related areas of dance, opera and the musical comedy.
Prerequisites: I 1007 345, 455.

I 1007 478
ADVANCED STAGE MAKEUP 3.0
A demonstration laboratory in planning and executing corrective middle-age, old age, stylized and other creations; three-dimensional makeup with crepe hair, latex, putty and dermawax; makeup crew supervision.
Prerequisites: I 1007 278, instructor's permission.

I 1007 480
SEMINAR IN THEATRICAL CONCEPTUALIZATION 3.0
Active reinforcement of the concept of communal effort and thought in the theater through the creation of student awareness of current artistic and/or philosophical conflicts within the discipline. Limited to B.F.A. candidates in their senior year.

I 1007 490
INTERNSHIP IN THEATRE 4.0–16.0
Upper-class undergraduate students may pursue a major portion of a semester work under the supervision of an experienced professional practitioner as an assistant in an active, successful theater, dance, speech or media center program. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration. Credit by arrangement.
Prerequisite: Instructor's permission.

I 1007 495
THESIS (SENIOR) 3.0
Senior project in an area of student's primary field of specialization; theatre history, dramatic literature, criticism of performance theory. Requires intensive research project demonstrating the student's ability to apply the theories and principles revealed by his project to performance or production.
Prerequisites: Senior standing, permission of instructor.

I 1008 105
DANCE APPRECIATION 3.0
Designed to inform the student about dance as a performing art form. Focus in on dance performance. The course includes: lectures, discussion, selected readings, viewing films, video tapes, and live performances as well as some experimental movement sessions.

I 1008 141
DANCE TECHNIQUE: MODERN I 2.0
Introduction to modern dance; techniques and basic elements of dance. May be repeated for credit.

I 1008 142
DANCE TECHNIQUE: MODERN I ADVANCED 3.0
To be taken in conjunction with I 1008 141. May be repeated for credit.
Corequisite: I 1008 141.

I 1008 150
PRODUCTION ELEMENTS FOR DANCE 2.0
Introduction to technical productions related to dance. Survey of terminology, application of production principles, and aesthetic potential for production.

I 1008 161
CHOREOGRAPHY I 2.0
Elements and methods of dance composition.

I 1008 205
RHYTHMIC ANALYSIS 3.0
All basic rhythmic structures (basic note values, meter, etc.) covered and immediately applied to movement; games, notational assignments, and choreographic studies used to create understanding of the inherent rhythm within all basic dance movement.
Prerequisites: I 1008 141, majors only.

I 1008 253
DANCE TECHNIQUE: JAZZ I 2.0
An introduction to jazz technique; emphasis on style and the rhythmic aspects of jazz as a performing art.
Prerequisite: 2 semester hours of modern dance or permission of instructor.

I 1008 256
DANCE TECHNIQUE: JAZZ II 2.0
Advanced jazz techniques with expanded emphasis on style and the rhythmic aspects of jazz as performance art.
Prerequisite: Instructor's permission.

I 1008 261
CHOREOGRAPHY II 2.0
Dance choreography with emphasis on small group works and solos, including form and structure.
Prerequisite: I 1008 161.

I 1008 265
DANCE IMPROVISATION 2.0
Basic skills and problems in dance improvisation. May be repeated for credit.

I 1008 271
BEGINNING TAP DANCE 3.0
Basic introduction to tap dance, including movement vocabulary, ability to execute rhythmic foot patterns, and basic tap patterns in performance.

I 1008 280
DANCE PRACTICUM 1.0
Practical work in dance production: dancing, assisting, directing, accompanying, working on technical or house crew. Credit only for working through the entire production period. Work must be completed and report filed prior to registration in the course. May be repeated for credit.
Prerequisite: Instructor's permission.

I 1008 310
MOVEMENT ANALYSIS 3.0
Anatomy for dancers; emphasis on freeing the body from tension, and on muscle awareness, postural alignment, and relaxation.
Prerequisite: 4 hours of modern dance or instructor's permission.

I 1008 315
DANCE HISTORY: PRIMITIVE TO 1850 3.0
Dance as it has developed from primitive religious and ritualistic movement to the romantic era. Emphasis upon ancient forms, courtly life, and the development of ballet. Meets the general education requirement.

I 1008 316
DANCE HISTORY: 1850 TO PRESENT 3.0
Study of dance in its historical context, with reference to development of ballet, modern dance, post-modernism, and jazz elements. Meets the general education requirement.

I 1008 321
BEGINNING LABANOTATION 3.0
The elementary principles of dance notation taught through immediate application to dance repertory. Designed for dancers to increase their understanding of movement through literacy. The course covers the fundamentals of the system: stepping, arm and leg gestures, jumping, turning, circling, floor plans and repeat signs.

I 1008 322
INTERMEDIATE LABANOTATION 3.0
Advanced reading and writing of labanotation. Lessons cover parts of limbs, touch, slide, brush, torso tilts, bends and twists, kneeling, sitting, and specific parts of the torso.

I 1008 341
DANCE TECHNIQUE: MODERN II 3.0
Further study and application of basic movement vocabulary, complex movement patterns, and style and performance focus. May be repeated for credit.
Prerequisite: By audition only.

I 1008 343
DANCE TECHNIQUE: MODERN III 3.0
Continuation of I 1008 341. May be repeated for credit.
Prerequisite: I 1008 341.

I 1008 345
DANCE TECHNIQUE: ETHNIC 2.0
The distinctive techniques customarily related to specific racial and cultural groups. The groups studied will vary from semester to semester. May be taken more than once.

I 1008 351
DANCE TECHNIQUE: BALLET I 3.0
An introduction to ballet technique. May be repeated for credit.
Prerequisite: 4 semester hours of modern dance or instructor's permission.

I 1008 353
DANCE TECHNIQUE: BALLET II 3.0
Advanced technique forms with presentations by authorities from various ballet schools. May be repeated for credit.
Prerequisites: I 1008 352; instructor's permission.

I 1008 357
DANCE TECHNIQUE: BALLET III 3.0
Advanced ballet technique with emphasis on individualized placement. Continuation of work with intricate, technically difficult sequences. Continuation of emphasis on musicality, line, dynamics, and stylistic refinement. May be repeated for credit.
Prerequisites: I 1008 351, 352, 353 or instructor's permission.

I 1008 361
CHOREOGRAPHY III 2.0
Exploring and applying performance concepts and techniques used in choreographing for groups of varying sizes.
Prerequisite: I 1008 261.

I 1008 371
ADVANCED TAP DANCE 3.0
Intermediate tape dance, including advanced movement combinations, ability to execute complex foot patterns and combinations, and complicated tap patterns in performance.
Prerequisite: I 1008 271, instructor's permission.

I 1008 381
DANCE STUDIO PRACTICUM 1.0–3.0
Supervision in specialized dance activity. Consent of department chairperson is required. Credit by arrangement. May be repeated for credit.

I 1008 403
INDEPENDENT STUDY 1.0–3.0
Proposals must be submitted for departmental approval prior to registration for the course.

I 1008 480
SENIOR PROJECT 1.0
Individual creative or research project under supervision of dance faculty in senior year. By arrangement.
Prerequisite: Senior status.

I 1008 485
DANCE REPERTORY 1.0–8.0
Dancing, choreographing, or providing technical assistance for a repertory company. Normally involves a touring company both within and outside the state for an extended period of time. May be repeated for credit.
Prerequisite: By audition only.

I 1008 490
INTERNSHIP IN DANCE 4.0–15.0
Upper class undergraduate students may pursue a major portion of a semester's work under the supervision of an experienced professional practitioner as an assistant in active, successful dance activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.

I 1506 050
SPEECH IMPROVEMENT:
FOREIGN SPEECH PATTERNS 3.0
Voice and speech problems; comparative phonetic analysis of other languages, noting intonation and inflection differences; evaluation of progressive speaking and reading skills. For students requiring intensive training in spoken English. Credits not applicable toward graduation. Admission by department following evaluation testing.
Prerequisite: Department evaluation required.

I 1506 101
FUNDAMENTALS OF SPEECH:
COMMUNICATION REQUIREMENT 3.0
Practical opportunities in a variety of speaking situations. Emphasis on skills, development of poise and confidence and effective communication. Distracting elements in voice or articulation considered, with additional work as needed in the Speech Laboratory. Satisfies the communication requirement.

I 1506 103
VOICE AND SPEECH IMPROVEMENT 3.0
Development of voice and speech techniques and elimination of faults; procedures for improving voice and speech patterns. For speech and theatre majors and minors; others by consent of the instructor.

I 1506 104
PHONETIC STUDY OF SPEECH SOUND 3.0
The manner and place of articulation heard in American English; use of international phonetic alphabet to transcribe speech both prescriptively and descriptively from live and recorded voices; intonation and stress patterns of spoken English.

I 1506 105
VOICE AND SPEECH IMPROVEMENT FOR STUDENTS
WITH FOREIGN SPEECH PATTERNS I 3.0
Voice and speech problems: comparative phonetic analysis of other languages, noting intonation and inflectional differences; evaluation of progressive speaking and reading skills. For students requiring intensive training in English as a second language.

I 1506 160
ORAL INTERPRETATION OF LITERATURE 3.0
Classroom performances of oral interpretation of various forms of literature followed by informal critiques and the development of a repertory.

I 1506 172
PRINCIPLES OF HUMAN COMMUNICATION 3.0
A survey of the process of human communication on all levels of interaction from intrapersonal to mass communication. Introduction to and an awareness of the key principles operating during the process of communication.
Prerequisite: Majors only.

I 1506 201
COMMUNICATION IN THE CLASSROOM 1.0
Examine and develop communication options for enhancing teaching/learning in the classroom as they relate to student/teacher communication, communication and classroom instruction, and communication and the profession.

I 1506 230
LISTENING 3.0
The development of critical, discriminative, appreciative and empathic listening skills; emphasis will be on listening theory/concept exploration, listening skill building, and experiential learning through theory application.
Prerequisite: Majors only.

I 1506 234
PUBLIC SPEAKING 3.0
Preparing and delivery of effective, informative, persuasive and entertaining speeches; addressing the class; entering into formal critiques and moderating one program.

I 1506 271
INTERPERSONAL COMMUNICATION I 3.0
Basic theory of interpersonal communication and its practical applications in one-to-one and small group communication situations; personal communication patterns as they affect self-perception and the perception of others.

I 1506 272
INTERPERSONAL COMMUNICATION II 3.0
Current literature in the field of interpersonal communication and the relationship of the theory to communication experiences both in and out of class.
Prerequisite: I 1506 271; majors only.

I 1506 302
PRACTICUM IN SPEECH IMPROVEMENT 3.0
Evaluation, etiology and remedial techniques for minor voice and diction problems common to a general school population; self motivating materials for junior high and high school. For all Speech and Theatre majors planning to teach. Three class hours, one hour for observation and practice.
Prerequisites: I 1506 103, 104, 160, 234.

I 1506 334
PUBLIC COMMUNICATION TECHNIQUES 3.0
Contemporary styles of speaking relating to current issues and events; primary focus on television/radio styles of announcing; work to develop flexibility in using the various styles.
Prerequisite: I 1506 172; majors only.

I 1506 363
READER'S THEATRE 3.0
The close union of interpretation of literature and theatre; adaptation and editing of the various genres of literature; participation in public performances of reader's theatre.
Prerequisites: I 1506 160, I 1007 122.

I 1506 374
GROUP PROCESSES 3.0
The affective domain of a group's function; variables like cohesiveness, blocking behavior, withdrawal, etc., as related to the development and maintenance of productive interaction.
Prerequisite: I 1506 172, 271; majors only.

I 1506 375
NONVERBAL COMMUNICATION 3.0
Non-linguistic system and the communication experience. Effects of nonverbal aspects (physical behavior, spatial relationships, context, environment, etc.) upon the sending and receiving of verbal messages.
Prerequisites: I 1506 172; majors only.

I 1506 388
SEMINAR IN PUBLIC RELATIONS 3.0
Provide background theory and practical experience in public relations. Writing forms and styles, project planning, and campaign strategy as they relate to public relations are emphasized.
Prerequisite: I 1506 271; majors only.

I 1506 403
INDEPENDENT STUDY 1.0–3.0
The proposals must be submitted for departmental approval prior to registration for the course.

I 1506 407
METHODS OF TEACHING SPEECH AND THEATRE 3.0
Speech education at each grade level; approaches, problems, materials, textbooks and techniques; trends in instruction; integration of speech with other fields.
Prerequisites: Instructor's permission, majors only.

I 1506 435
SPEECH ARTS ACTIVITY 1.0–3.0
Credit is given for supervised speech arts activity. Consent of department chairperson required. Credit by arrangement.

I 1506 438
PRINCIPLES OF PERSUASION 3.0
Theory and application of persuasive principles in various fields of society with focus on communication strategies for awareness, understanding, evaluation, and change of social forces in media, education, government, business, religion, politics, relationships, and industry.
Prerequisite: I 1506 172; majors only.

I 1506 441
GROUP DISCUSSION 3.0
Principles of small group discussion with a task problem-solving orientation. Leading and participating in private and public discussions; introduction to parliamentary procedure.

I 1506 442
ARGUMENTATION AND DEBATE 3.0
Principles of argumentation; characteristics of propositions, definitions of terms, logical organization, evidence, research and oral techniques, structure of tournament debating. practice in argumentation and debate of current significant issues.
Prerequisites: I 1506 172, 234; majors only.

I 1506 478
APPLIED COMMUNICATION 3.0
Identification of practical applications and implications for the theories of human communication is explored with specific focus on communication careers through interviewing techniques, personal applications and implications, and career panels with communication professionals. A pragmatic approach allows a synthesis of learned communication theory and applied communication practice.
Prerequisites: I 1506 172, 271; majors only; senior standing; permission of instructor.

I 1506 490
INTERNSHIP: COMMUNICATION STUDIES 4.0–16.0
Upper-class undergraduate students may pursue a major portion of a semester's work under the supervision of an experienced professional practitioner as an assistant in active, successful communication activity. Departmental eligibility and approval must be secured by the midpoint of the semester preceding registration.
Prerequisite: Departmental approval.

OTHER ACADEMIC PROGRAMS

College Honors Program

Director: Rhoda K. Unger

The College Honors Program provides a core of academic excellence, stimulates a sense of community, and establishes a lively and creative force in support of the academic and intellectual interests of outstanding students. Participants share a core curriculum of seven interdisciplinary seminars which fulfill various components of the undergraduate general education requirements. Honors sections of regular courses will also be available to participants as well as to selected students who are not participants in the college honors program itself.

Admission to the College Honors Program as a freshman requires that the applicant meet two of the following criteria:

1. Rank in the top 10% of high school class.
2. A score of at least 600 on either the verbal or math SAT.
3. A combined SAT score of at least 1150.
4. An unusual ability in the creative arts or exceptional leadership or other extraordinary accomplishment.

Students interested in applying to the program must fill out an application form that includes a brief essay. Selected candidates may be interviewed by a member of the Honors Program Advisory Board as part of the admission process. The number of students in the program is limited to sixty per entering class. Completion of the program's requirements becomes a part of the student's official transcript and is noted on the student's diploma. It is expected that students in the College Honors Program will choose to be involved in existing honors programs within their major disciplines. Courses in the junior year are designed to facilitate this transition.

Required Courses

Freshman Year

Semester Hours

9 4901 100
HONORS SEMINAR IN GREAT BOOKS
AND IDEAS, PART I 3.0
Focus on the significant masterworks and intellectual foundations of western civilization. Original source materials will be read.
Prerequisite: By invitation only.

9 4901 101
HONORS SEMINAR IN GREAT BOOKS
AND IDEAS, PART II 3.0
Continues to focus on the significant masterworks and intellectual foundations of western civilization. Original source materials will be read.
Prerequisite: By invitation only.

9 4901 102
HONORS SEMINAR IN
20th CENTURY CIVILIZATION, PART I 3.0
Focus on important political, economic, and technological events of the twentieth century, and their implications for the individual and the society. Meets the general education requirement.
Prerequisite: By invitation only.

9 4901 103
HONORS SEMINAR IN
20th CENTURY CIVILIZATION, PART II 3.0
Continues to focus on important political, economic, and technological events of the twentieth century, and their implications for the individual and the society. Meets the general education requirement.
Prerequisite: By invitation only.

Sophomore Year

9 4901 201
HONORS SEMINAR IN THE
FOUNDATIONS OF THE CREATIVE PROCESS 3.0
This course is designed for second-year honors program students. It makes no assumptions that they have a background in the creative arts. This course will acquaint them with the language and process of the creative arts from both an historical and contemporary perspective.
Prerequisite: By invitation only.

9 4901 202
HONORS SEMINAR ON SOCIAL ANALYSIS 3.0
Comparison of various social sciences in terms of theory, methodology and forms of analysis. A particular topic will be focused upon each semester.

9 4901 210
HONORS SEMINAR IN SCIENCE I 4.0
Interdisciplinary course in the natural and physical sciences consisting of seminars and laboratory experience. This is the first of a two-semester requirement for honors program students. Enrollment will be limited to MSC honors program students.
Prerequisite: For College Honors Program students only or by permission of instructor.

9 4901 211
HONORS SEMINAR IN SCIENCE II 4.0
Interdisciplinary course in the natural and physical sciences consisting of seminars and laboratory experience. This is the second of a two-semester requirement for honors program students. Enrollment will be limited to MSC honors program students.
Prerequisite: For College Honors Program students only or by permission of instructor.

Junior Year

Seminar in Research Methods 3
Preparation for conducting original research in the student's major. The methodology of various disciplines is discussed in terms of their strengths and weaknesses. Students will have an opportunity to evaluate preferred research strategies before actually conducting the work.

Seminar in Ways of Knowing 3
Comparisons of methods of validating knowledge in various disciplines. Assumptions about the bases of knowledge in the humanities, social sciences, and physical sciences will be critically examined.

General Humanities

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Coordinator: Timothy T. Renner

Humanistic studies are concerned with the critical and expressive awareness of the meaning of human experience, and the many ways in which mankind has seen itself in the past and sees itself today. Among social, scientific, philosophical and religious studies, in literary and artistic expression, the humanities seek the common awareness of the human problem and the varying attempts at its solution.

The major in General Humanities is recommended for students who have a broad interest in liberal arts. The major begins with two introductory courses, General Humanities I and II, which together offer an overview of important themes, periods, subject areas, and modes of inquiry within the humanities. Next, the student takes a series of selected courses in five of the traditional humanistic disciplines. At this stage, the student, in consultation with a faculty advisor, identifies a special topic which will be the subject of the senior thesis or other project and plans a portion of the courses taken within the various disciplines so as to include four which make up a concentration centering around the topic of interest. Finally, the student prepares a senior thesis or other project.

Required Courses

		Semester Hours
4903 201, 202	General Humanities I, II	6
4903 499	Senior Humanities Seminar (to accompany writing of senior thesis)	4

Electives (Major)

Students will take a total of 24 semester hours in selected courses in the five areas listed (detailed lists of appropriate courses within each area may be obtained from the faculty advisor). Four courses out of the total eight will be carefully chosen so as to provide the student with background on a humanistic topic which is interdisciplinary in nature and which will be the subject of the senior essay.

a. History: One course from two of the following groups:
   (1) Earlier Western
   (2) Later Western
   (3) Non-Western
   total 6

b. Philosophy and Religious Studies: One course from each group:
   (1) Philosophy
   (2) Religious Studies
   total 6

c. Literature: One course from each group:
   (1) Comparative Literature
   (2) National Literature
   total 6

d. Art History: One course 3

e. Music History: One course 3

Grand total: 34

Courses of Instruction

K 4093 201
GENERAL HUMANITIES I (to 1400) 3.0
A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from the ancient world to the Middle Ages.

K 4093 202
GENERAL HUMANITIES II (from 1400) 3.0
A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from Renaissance to the present.

K 4093 480
INDEPENDENT STUDY IN GENERAL HUMANITIES 1.0–4.0
Directed independent study and research in general humanities. May be elected in lieu of K 4903 499, Senior Humanities Seminar, in years when the seminar is not being offered.
Prerequisite: Permission of the program coordinator.

K 4903 499
SENIOR HUMANITIES SEMINAR 4.0
A seminar for majors. The student will develop, in a senior thesis or other creative project, an interdisciplinary approach to an idea or problem arising from the concentration.
Prerequisite: Senior standing as a General Humanities major.

Legal Studies

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Director: Marilyn R. Tayler

Legal Studies is unified in terms of the broad discipline and also overall ultimate career objectives. The Center for Legal Studies provides a cohesive structure which preserves the interdisciplinary nature of the legal field. The thrusts of the Center are threefold:

- To unify the Paralegal and Pre-Law Programs into a single resource unit for students interested in the legal field,
- To provide appropriate counseling and information for students,
- To represent Montclair State College's leadership role in undergraduate legal studies in relation to law schools, the organized bar, and the general public through activities such as conferences, research and consultation projects.

In the essential process of advisement, Dr. Carl Gottschall serves as Mathematics, Computer Science and Patent Coordinator. Dr. Harry Balfe, the College Pre-Law Advisor, is available to provide information to students regarding law school admission. Additionally, advisors representing many departments at the College, counsel Pre-Law students regarding the best course of study within a major for students planning a career in law. Paralegal advisement, both academic and career, is provided by Dr. Marilyn Tayler and Dr. Barbara Nagle of the Center for Legal Studies.

The Center for Legal Studies affords Montclair State College students the dual possibilities of an applied career in law as a paralegal or preparation for an ultimate career as an attorney. Both the Paralegal and Pre-Law Programs are minors which may be combined with many diverse majors on campus.

PARALEGAL STUDIES PROGRAM
(24 semester hours)

The Paralegal Studies Minor offers the student a balanced and varied background in the legal fundamentals, appropriate skills, and practical field work experience necessary for work as a legal assistant. Paralegal Studies develops intellectual and analytical skills, trains students for direct employment opportunities in law related fields and provides supplemental career possibilities in combination with a student's major.

The Montclair State College Paralegal Studies Program is the first and only program at a four-year college in the State of New Jersey to receive American Bar Association approval.

There are three possible courses of study within the Montclair State College Paralegal Studies Program: General Law Practice, a Hispanic Specialization for bilingual students, and a Patent, Trademark and Copyright Law Specialization.

General Law Practice

		Semester Hours
Course of Study		
1402 220	Introduction to Paralegalism	3
1402 230	Fundamentals of Legal Research	3
1402 221	Civil Litigation	3
Choice of 2 of the following		6
1402 301	Domestic Relations	3
1402 302	Real Estate Law	3
1402 303	Wills, Trusts, and Probate Law	3
1402 304	Corporations and Partnerships	3
1402 305	Personal Injury Law	3
1402 340	Computer Fundamentals for Paralegals	3
Choice of 2 of the following		6
1402 307	Immigration Law	3
1402 310	Fundamentals of Patent, Trademark and Copyright Law	3
1402 331	Advanced Legal Research	3
1402 341	Advanced Computer Concepts for Paralegals	3
1402 350	Criminal Procedure, Laws, Rules and Practice	3
1402 400	Selected Topics in Paralegal Studies	3
2207 321	Law in Society: Criminal Law (Political Science)	3
0501 261	Legal Environment of Business I (Accounting, Law, and Taxation)	3
1402 325	Seminar and Internship in Law	3
Total Semester Hours for Program		24
Optional Internship		
1402 326	Seminar and Internship in Law II: Cooperative Education	4 or 8

Specializations

Students completing the HISPANIC SPECIALIZATION must include the following legal specialty course:

1402 316 Skills for Bilingual Legal Personnel 3

Students completing the PATENT, TRADEMARK and COPYRIGHT SPECIALIZATION must take the following legal specialty courses:

1402 310 Fundamentals of Patent, Trademark and Copyright Law 3
1402 311 Patent, Trademark and Copyright Law: Practice and Procedure 3

An internship in the area of specialization is required.

PRE-LAW STUDIES PROGRAM
(21 semester hours)

The Pre-Law Studies Minor at Montclair State College is an interdisciplinary program designed to enhance the preparation of students planning to seek admission to law school by promoting the development of analytical and critical writing, reading, and thinking. The program offers students a balanced and varied background, enriching the student's academic major, in the acquisition of skills essential for success in the field of law.

Course of Study

Prerequisite or Corequisite:
1401 200 Introduction to Law and Legal Professions 3

ESSENTIAL SKILLS

Select 2 courses from this group (6 semester hours):
Department/Course Title
English: Writing Non-Fiction Prose
Legal Studies: Fundamentals of Legal Research
Classics: English Vocabulary: Classical Roots
Speech and Theatre: Public Speaking
Linguistics: Language of the Law

Select 2 courses from this group (6 semester hours):
Philosophy and Religion: Logic
Philosophy and Religion: Critical Reasoning and Argument
Mathematics and Computer Science: Statistics
Mathematics and Computer Science: Mathematical Reasoning and Legal Problem Analysis
Speech and Theatre: Argumentation and Debate

BACKGROUND COURSES

Select 1 course from this group (3 semester hours):
History: Selected Topics: American History to 1876 or since 1876
Political Science: Institutions of American Government
Political Science: Constitutional Law: The Federal System
Philosophy and Religion: Philosophy of Law

Select 1 course from this group (3 semester hours):
Business Education: Contemporary Business
Economics: Principles of Economics: Macro
Accounting, Law and Taxation: Accounting for Non-Business Majors

Total Semester Hours for Program (including prerequisite or corequisite) 21

Courses of Instruction

Q 1401 200
INTRODUCTION TO LAW AND LEGAL PROFESSIONS 3.0
An introduction to the meaning and function of law, the powers of the courts, and the jurisdiction of the courts. An exploration of traditional and evolving areas of law. A survey of the different professions and career options within the legal field. An assessment of the roles and importance of law in the lives of students and the public.

Q 1401 400
SELECTED TOPICS IN LAW 3.0
Exploration of a timely and significant area of law. The specific topic will be announced each time that the course is offered.

Q 1402 220
INTRODUCTION TO PARALEGALISM 3.0
An introduction to certain basic areas of the law, to the legal process, and to the legal system, particularly as it operates in the State of New Jersey. The roles of the lawyer and the paralegal within the legal system. Familiarization with ethical considerations and specific paralegal skills in the areas of interviewing, investigation, and advocacy.

Q 1402 221
CIVIL LITIGATION 3.0
The terminology of civil law. Substantive and procedural principles relating to all stages of a civil law suit from commencement to judgment, particularly as applied to New Jersey Civil Practice Rules. Drafting of pleadings, motions, and other documents in a civil law suit. Trial and appellate procedures.
Prerequisite or corequisite: Q 1402 220.

Q 1402 230
FUNDAMENTALS OF LEGAL RESEARCH 3.0
Fundamental principles and methods of legal research. The use of a law library, case law, statutory law, and other sources. The application of the the tools of legal research to case analysis, digesting legal opinions, and writing a law office memorandum. Not open to freshmen.
Prerequisite: Q 1402 220 is recommended.

Q 1402 301
DOMESTIC RELATIONS LAW 3.0
Basic concepts and scope of domestic relations law and family law practice. Familiarization with forms and procedures to train the legal assistant in this area. Ante-nuptial agreements, formalities of marriage, separation agreements, divorce.
Prerequisites: Q 1402 220, 221, 230.

Q 1402 302
REAL ESTATE LAW 3.0
Principles of real estate law and transactions to train the legal assistant in this area of practice. Conveyances of real property from the standpoint of seller and purchaser. Landlord-tenant relations.
Prerequisites: Q 1402 220, 221.

Q 1402 303
WILLS, TRUSTS, AND PROBATE LAW 3.0
Basic concepts, practice, and procedure in wills, probate, and trusts. Will drafting, estate planning, probate procedures, and estate administration. Forms and questionnaires utilized by paralegals in these areas.
Prerequisites: Q 1402 220, 221.

Q 1402 304
CORPORATIONS AND PARTNERSHIPS 3.0
Legal characteristics and tax aspects related to sole proprietorship, partnership, limited partnership, and corporation. Formation, operation, and dissolution of the corporate entity. Drafting of legal forms utilized by paralegals in these areas.
Prerequisites: Q 1402 220, 221, 230.

Q 1402 305
PERSONAL INJURY LAW 3.0
Legal concepts and terminology of personal injury law, both substantive and procedural. Drafting of pleadings and other documents utilized by paralegals in personal injury practice. Negligence, medical malpractice, products liability.
Prerequisites: Q 1402 220, 221, 230.

Q 1402 307
IMMIGRATION LAW 3.0
Basic overview of Immigration and Naturality Act as well as historical and sociological perspective of U.S. immigration. Practice and procedure of Immigration Law as pertains to both administrative agency processing and consular processing. Visa applications, naturalization, citizenship, deportation, exclusion, asylum and refugee practice.
Prerequisites: Q 1402 220, 221.

Q 1402 310
FUNDAMENTALS OF PATENT, TRADEMARK,
AND COPYRIGHT LAW— 3.0
Substantive and procedural legal foundation in these areas. Application and registration procedures. Standards of patentability. Trademark registration. Subject matter of copyrights.

Q 1402 311
PATENT, TRADEMARK, AND COPYRIGHT LAW—
PRACTICE AND PROCEDURE 3.0
Substantive and procedural principles in the areas, including practice and procedure before the U.S. Patent and Trademark Office and the U.S. Copyright Office.
Prerequisite: Q 1402 310.

Q 1402 316
SKILLS FOR BILINGUAL LEGAL PERSONNEL 3.0
Translating, interpreting, and cultural fluency as applied to the legal field and in particular to the role of bilingual paralegals.
Prerequisite: Fluency in Spanish required.

Q 1402 325
SEMINAR AND INTERNSHIP IN LAW 3.0
Field work experience of 90 hours in a private sector law office, corporation, bank, or public sector agency. Also includes classroom seminar.
Prerequisites: Q 1402 220, 221, 230, instructor's permission.
Prerequisites or corequisites: 2 legal specialty courses chosen from among Q 1402 301, 302, 303, 304, 305 and 340 and also 2 legal specialty courses chosen from among Q 1402 307, 310, 311, 316, 331, 350; 2207 321; and 0501 261; 1105 360.

Q 1402 326
SEMINAR AND INTERNSHIP IN LAW II:
COOPERATIVE EDUCATION 4.0 or 8.0
Academic study integrated with supervised paid employment situation outside the formal classroom environment. Part-time (20 hours per week) or full-time (40 hours per week).
Prerequisites: Q 1402 220, 221, 230, 325.

Q 1402 331
ADVANCED LEGAL RESEARCH 3.0
Students refine and perfect principles and methods of legal research, how to use a law library, and to work with statutory, case law and other sources. Students apply to practical legal problems and research techniques learned in Fundamentals of Legal Research.
Prerequisite: Q 1402 230.

Q 1402 340
COMPUTER FUNDAMENTALS FOR PARALEGALS 3.0
An introduction to the structure of a computer, the function of programming language, computer application in the legal environment, available legal software, and legal applications of data bases.
Prerequisites: Q 1402 220, 221, 230.

Q 1402 341
ADVANCED COMPUTER CONCEPTS FOR PARALEGALS 3.0
The course is designed to explore the application and operation of computer programs designed specifically to assist in the practice of law or the management of a law office and to provide students with a conceptual basis for evaluation, application, and operation of other legal application programs which may become available to students. The course builds upon the background and knowledge acquired in the prerequisite "Computer Fundamentals for Paralegals."
Prerequisites: Q 1402 220, 230, 340.

Q 1402 350
CRIMINAL PROCEDURE, LAWS, RULES AND PRACTICE 3.0
Legal concepts and their application to criminal procedure. Study of procedural laws and rules governing criminal practice and how they impact on substantive criminal law. Will include the role of the paralegal in criminal practice from both the perspective of the prosecution and the defense.
Prerequisite: Q 1402 220.

Q 1402 400
SELECTED TOPICS IN PARALEGAL STUDIES 3.0
Exploration of a significant area of paralegal studies, including Administrative Law, Alternate Dispute Resolution, as well as new and evolving legal areas. The specific topic will be announced each time the course is offered.
Prerequisites: Q 1402 220, 221, 230.

Q 1499 105
PRACTICAL SPANISH FOR LEGAL PERSONNEL 3.0
Course designed to provide personnel dealing with Hispanics in legally-related situations with a basic knowledge of the Spanish language as it relates to the performance of their jobs in assisting Hispanics whose problems vary from tenancy and divorce to welfare, social security, immigration, and the like. (Also offered for credit in the Spanish and Italian Department.)

Q 1499 290
LANGUAGE OF THE LAW 3.0
This course introduces the student to the characteristic properties of legal English—both its linguistic structures and its social and psychological functions. The ultimate objective is to show that, depending upon how it is used, legal language can obfuscate or clarify, persuade or fail to persuade, hinder or facilitate communication. (Also offered for credit in the Linguistics Department.)



New Jersey School of Conservation

SCHOOL OF PROFESSIONAL STUDIES
Director: John J. Kirk

The New Jersey School of Conservation, the second largest environmental education center in the world, is operated for the State of New Jersey by Montclair State College through the School of Professional Studies. The 240-acre facility is located in Stokes State Forest.

Through its varied programs, the School of Conservation aims to develop a reverence for life and the formation of a land ethic which will influence students for the rest of their lives.

The School's activities and facilities are designed to handle both short- and long-term learning experiences. These range from two-and-one-half-, four-, or five-day programs for 12,000 elementary and secondary school students to graduate courses for over 600 students of the state colleges, private colleges, and Rutgers, The State University. In addition, since the School is operationally a part of Montclair State College, an increasing number of the College's curriculum planners are looking toward creating or modifying courses to be offered for Montclair State credit through the School. The School of Conservation also conducts workshops, which earn Montclair State College graduate/undergraduate credit, for elementary and secondary school teachers and for adults interested in the teaching and learning of environmental concerns. The faculty of the School have organized and developed one-day workshops for community action organizations.

Courses of Instruction

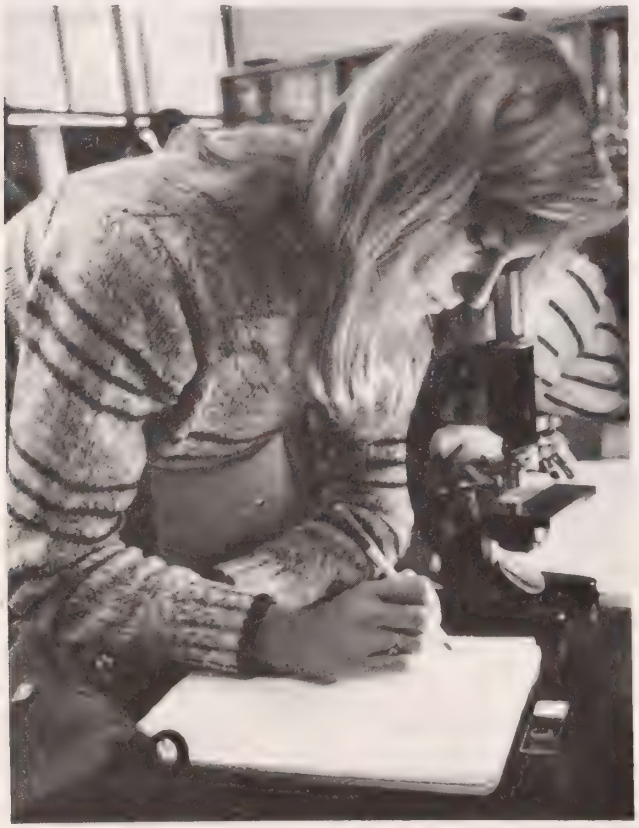
1 0843 460
PRACTICUM IN ENVIRONMENTAL EDUCATION 3.0
This course is designed to provide teachers and supervisors with a background of experience and knowledge which will enable them to organize and conduct conservation education programs in their own communities. Using an extensive library of conservation education materials, students formulate teaching units, lists of teaching aids, and projects suitable for use in their own communities. Participating in conservation projects with the children in the demonstration camp furnishes a practical background for research and discussion. (For camp staff only.)

1 0843 495
WORKSHOP ON UTILIZING NATURAL ENVIRONMENTS 1.0
To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers to increase their knowledge of as well as skills in the techniques of incorporating the physical, biological, and socio-cultural components of the environment in their curricula will be emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging from 15 to 20 specific subject areas.

1 0843 496
FIELD STUDY IN HUMANITIES AND
NATURAL SCIENCE 1.0
Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.

1 0843 497
FIELD STUDIES IN SOCIAL STUDIES AND
OUTDOOR RECREATION 1.0
Provides an understanding of how outdoor pursuits and social studies may be taught using natural environments to develop environmental sensitivity. Does not meet resident requirement.

1 0843 499
ENVIRONMENTAL IMPACT OF
RECREATION ON NATURAL AREAS 3.0
Students will examine the impact of recreation on natural areas in four of New Jersey's major eco-systems: Upland Forest, Pine Lands, Salt Marsh and Barrier Beach. On-site visits to a variety of natural areas will allow for comparison and contrast of heavily used sites with those which have been relatively undisturbed. Students will inventory the natural resources of each site and will use their inventories to develop "recreation impact statements." First hand knowledge of the four eco-systems will be gained by camping in or near each area.
Prerequisite: Special fee.



Toxicology

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Director: Eileen Snyder

In our modern world we are exposed to an increasingly complex array of chemical substances. Determining what effects these substances could have on our health and environment, their underlying molecular mechanisms and the probability of their occurence is the task of a toxicologist. Toxicology is a multidisciplinary field that draws freely upon the basic and biomedical sciences and uses the latest techniques to answer unique and challenging problems. The toxicologist identifies and tests chemical substances for adverse effects and interprets the results, evaluating potential hazard or safety. Among the areas in which toxicologists make these evaluations are: the risks and safety of chemical exposure at the workplace, from consumer goods and from food additives; problems stemming from drug use and abuse, and the risks from environmental pollution.

Toxicology majors are required to complete extensive collateral courses in biology, chemistry, mathematics and physics concurrent with, or prior to registering for, the advanced toxicology courses which start in their junior year. An introductory toxicology course is available without prerequisites. The summer between the junior and senior year is devoted to a cooperative education traineeship in industry or a regulatory agency and provides job experience for the future graduate.

Throughout the program there is an emphasis on the interdisciplinary nature of toxicology, including toxicology courses, research, seminar and a menu of upper level biology and chemistry electives selected because of their relevance to several specialties of the field.

Prospective applicants should have completed high school courses in chemistry, biology and physics, as well as four years of high school mathematics. A minimum of four academic years and two summers will be required to complete this program. Students who successfully complete the program will receive a Bachelor of Science from Montclair State College.

Toxicology Major

Required Courses

		Semester Hours
0426 100	Introduction to Toxicology	1
0426 310	Principles of Toxicology I	3
0426 311	Principles of Toxicology II	3
0426 350	Standard Methods in Toxicology Testing	2
0426 409	Externship in Toxicology Research (Cooperative Education)	4
0426 450	Pathology for Toxicologists	4
0426 460	Toxicology Seminar	2

Required Collateral Courses

		Semester Hours
0401 140	Biology of the Cell	4
0401 131	General Zoology II	4
0401 350	Microbiology	4
0401 414	Genetics	5
0401 440	Mammalian Anatomy and Histology	4
0401 447	Fundamentals of Pharmacology	3
1905 120, 121	General Chemistry I, II	8
1905 230, 231	Organic Chemistry I, II	6
1905 232, 233	Experimental Organic Chemistry I, II	4
1905 310	Analytical Chemistry	5
1905 370	Biochemistry	3
1701 122, 221	Calculus I, II	8
1701 242	Biostatistics	3
Select one sequence:		
1902 193, 194	College Physics I, II	8
OR		
1902 191, 192	General Physics I, II	8

Required Electives

Select 9 semester hours from the appropriate list of Biology and Chemistry courses to be obtained from the Toxicology Program Office.

Courses of Instruction

W 0426 100
INTRODUCTION TO TOXICOLOGY 1.0
Survey of the scope and fields of toxicology including current events, legislation, and career opportunities.

W 0426 310
PRINCIPLES OF TOXICOLOGY I 3.0
Examination of the major classes of toxic agents by identifying characteristics of their toxicity and factors which modify this outcome.

W 0426 311
PRINCIPLES OF TOXICOLOGY II 3.0
Survey of the effects of toxic agents on target organs and physiologic systems including teratology; mutagenicity; carcinogenicity; toxicity of the central nervous, musculoskeletal, reproductive, cardiovascular, hematopietic, endocrine and immune systems; hepatic, renal and ocular toxicity.
Prerequisite: W 0426 310

W 0426 350
STANDARD METHODS IN TOXICOLOGY TESTING 2.0
This is a hands on laboratory experience in a toxicology facility. It will include dosing and observation methods for "pre-clinical safety evaluation testing" as defined in a variety of regulatory testing protocols accepted by the USA and international governments. It will also provide familiarity with the Good Laboratory Practice Regulations and their application.
Prerequisites: W 0426 310; Toxicology majors only.

W 0426 409
EXTERNSHIP IN TOXICOLOGY RESEARCH (COOPERATIVE EDUCATION) 4.0
Full- or part-time work, as defined by the cooperating scientist and Cooperative Education, in an established laboratory for the duration of one semester. Special written assignments will be required for receipt of grade.
Prerequisite: W 0426 310; Toxicology majors only.

W 0426 450
PATHOLOGY FOR TOXICOLOGISTS 4.0
Lecture and laboratory course for toxicology majors introducing basic concepts of disease mechanisms and disease processes, particularly related to mammalian species commonly used in toxicological evaluation.
Prerequisite: W 0426 311.

W 0426 460
TOXICOLOGY SEMINAR 2.0
This is a survey course of the specialty fields in toxicology and how they relate to the basic toxicological principles learned in the major. The course includes, but is not limited to, surveys of topics such as forensic toxicology, marine toxicology, clinical toxicology, oncology research, regulatory affairs, plant toxicology, environmental toxicology and immunotoxicology.
Prerequisite: W 0426 310.

Transcultural Studies

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
General Program Coordinator: Lois A. More

World Cultures

Program A
The concentration in world cultures, offers opportunities to analyze generalizations regarding human behavior and to examine universal aspects of social institutions that transcend boundaries of culture areas. The program prepares students to teach world cultures in junior and senior high schools. As a liberal arts major, it is preparatory to graduate specialization in culture anthropology, geography, history or political science, as well as careers in business, museums, government or private agencies whose focus is the non-West.

		Semester Hours
Core Requirements		9
J 2202 100	Cultural Anthropology	
N 2206 101	Cultural Geography	
P 2205 200	The Study of History	
Unit Requirements		12

Choose two units:

Select two:	
J 2202 312	Peasant Culture
P 2205 132	Introduction to Chinese Civilization
P 2205 133	Modern Chinese Civilization
S 2207 403	Government and Politics of China and Japan
Select two:	
J 2202 431	Development of Indian Character and Culture
P 2205 131	Introduction to Indian Civilization
S 2207 404	Government and Politics of India and South Asia
Select two:	
J 2202 301	Peoples of Africa
P 2205 108	Introduction to African Civilization
S 2207 402	Government and Politics of Africa
Select two:	
J 2202 304	Peoples of the Soviet Union
P 2205 323	History of Russia to 1917
S 2207 407	Government and Politics of the U.S.S.R.

Select two:
J 2202 302 Native Latin Americans
N 2206 308 Land and Life in Latin America
P 2205 114 Early Latin American Civilization
P 2205 116 Modern Latin American Civilization
S 2207 405 Government and Politics of Latin America
Select two:
J 2202 310 Cultures of the Middle East
P 2205 109 Introduction to Islamic Civilization
S 2207 406 Government and Politics of the Middle East

Semester Hours

Electives 12

J 2202 202 Cultural Change & Modernization
J 2202 405 Psychological Anthropology
J 2202 204 Anthropology of Religion
J 2202 203 Anthropological Linguistics
P 2205 461 Cultural History of Primitive Societies
P 2205 330 Chinese Social History Through Literature
P 2205 432 Development of Japanese Character and Culture
N 2206 421 Population Problems of the World
N 2206 423 Culture and Resource Utilization
J 2204 412 Cultural Ecology
J 2202 415 Women in Traditional Society
S 2207 202 International Relations
S 2207 303 Politics of Development and Modernization
S 2207 413 Afro-Asian Foreign Policy
Independent Transcultural Study

Required Total 33

Asian Studies

Program B

Asian Studies, a program in the social sciences and humanities, introduces the classical Asian civilizations and their modern transformations. The program offers regional studies in South or East Asia. Students prepare for Asian graduate study and careers in journalism, government, and international business or private agencies whose focus is Asian.

Requirements

Semester Hours

Introduction—Mode of Inquiry 3
Requirement: P 2205 200 The Study of History
Interdisciplinary Regional Concentration 12
(One regional concentration)
A. East Asia
Requirement
P 2205 132 Introduction to Chinese Civilization 3
Electives (3 courses in 3 disciplines) **9**
J 2202 312 Peasant Culture
S 2207 403 Government and Politics of China & Japan
U 2208 334 Comparative Social Analysis
4910 460 Independent Study: East Asia
B. South Asia
Requirement
P 2205 131 Introduction to Indian Civilization 3
Electives (3 courses) **9**
J 2202 431 Development of Indian Character and Culture
S 2207 404 Government and Politics of South Asia and India
Indian Literature and Culture
Independent Study: South Asia
Comparative Studies—Modernization 6–9

Electives (2 or 3 courses)
U 2208 334 Comparative Social Analysis
C 2204 303 or 403 Economic Growth and Development *or* Comparative Economic Systems
J 2202 312 Peasant Culture
S 2207 303 The Politics of Development and Modernization
N 2206 409 Urbanization in World Perspective

General Electives (3 or 4 courses) 9–12
J 2202 310 Cultures of the Middle East
J 2202 432 Development of Japanese Character and Culture
P 2205 109 Introduction to Islamic Civilization
P 2205 133 Modern Chinese Civilization
P 2205 223 The Communist Revolution in China
P 2205 330 Chinese Social History through Literature
R 1509 237, 1599 231 Oriental Philosophy
R 1599 212 Oriental Religions
S 2207 413 Afro-Asian Foreign Policy

Required Total 33

Latin American Studies

Program C

The Latin American Area Studies specialization offers the students a wide range of opportunities, both in terms of academic flexibility and future professional endeavors. The specialization provides a three-pronged approach: (1) the student is exposed to several disciplines, which analyze Latin American and Latin Americans in depth: (2) there is a language component, which enables the student to better understand local cultures and to communicate effectively within them: and (3) the field experience components of this specialization give the student the opportunity to put into practice the knowledge acquired in the classroom. Those graduating within this specialization will have a broad background, which will allow them great latitude in career choices.

Semester Hours

Requirements 19–25

N 0308 100 The Many Worlds of Latin America: Interdisciplinary Perspectives
P 2205 114 Early Latin American Civilization
N 0308 300 Pre-Field Work Seminar in Latin American Area Studies
N 0308 400 Field Experience in Latin American Area Studies
N 0308 401 Post-Field Work Seminar in Latin American Area Studies

Electives 8–14

Students are required to take courses in a minimum of three fields or disciplines. Early Latin American Civilization—which is a requirement—fulfills this minimum history need. Elective offerings are in the following fields: Anthropology, Comparative Education, Economics, Geography, History, Political Science, Sociology, Spanish, and Linguistics.

Courses of Instruction

Descriptions of required courses not listed here may be found under the sections of this catalog devoted to the departments of Anthropology; Economics; Environmental, Urban and Geographic Studies; History; Philosophy and Religion; and Political Science.

N 0308 300
PRE-FIELD WORK SEMINAR IN
LATIN AMERICAN AREA STUDIES 3.0
This course prepares students for their field experience in either the Hispanic communities of the mainland or in selected regions of Latin America. It is designed to acquaint the students with techniques of planning for different kinds of field work, designing proposals and learning to take into account culture differences. (The faculty represents a variety of disciplines and the teaching is interdisciplinary.)
Prerequisite: N 0308 100.

N 0308 400
THE FIELD EXPERIENCE IN
LATIN AMERICAN AREA STUDIES 6.0–12.0
The field experience permits students participation in the Latin American area studies program to acquire first-hand knowledge of some aspect of life in a Latin American community. The students, after having selected their topics, are responsible for sending reports from the field, developing the techniques they need for working in cooperation with program staff, and demonstrating that they have begun to interpret local reality in a disciplined manner.
Prerequisites: N 0308 100, 300, or course in similar field.

N 0308 401
POST-FIELD WORK SEMINAR IN
LATIN AMERICAN AREA STUDIES 3.0
The post-field work seminar enables the students to organize ideas and materials gathered during the field experience in an analytic report. The seminar affords students the opportunity to exchange ideas and information with other members of the group on their specific field experiences as these relate to report preparation.
Prerequisites: N 0308 300, 400.

INTERDISCIPLINARY MINORS

African-American Studies Minor (18 semester hours)

Director: Saundra

The undergraduate minor in African-American studies is an interdisciplinary academic program designed to be complementary to any of the undergraduate majors of Montclair State College. The African-American and African syntheses within the context of African, American and European culture are presented with their transcultural, interethnic and intellectual traditions—providing an appreciation of the heritage, arts, sciences and values on non-European and non-Euro-American groups. The African-American studies program will also provide for Black students a greater knowledge of self, self-respect and self-esteem. African-American studies for other students will build knowledge and awareness of African-American history, African-American culture and African-American people. Students who are interested in completing the requirements of the minor are urged to consult with the director about their programs.

Required Courses

Select three semester hours from each category for a total of six required semester hours.

Semester Hours

Category A
P 2205 108 Introduction to African Civilization 3
P 2205 217 History of Black Americans 3

Category B
T 2001 246 Psychology of the Black Experience 3
U 2208 202 Racial & Ethnic Relations 3

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the director of African-American studies.

Courses of Instruction

Anthropology

J 2202 301
PEOPLES OF AFRICA 3.0
Analyzes diversity in the lifestyles of representative cultures. Discussion of prehistory, culture change, and contemporary problems in Sub-Saharan Africa.

English

M 1501 238
AFRO-AMERICAN WRITERS 3.0
Major Afro-American writers from colonial times to the present.

M 1503 266
AFRICAN MYTH AND LITERATURE 3.0
The nature of the sub-Sahara experience and vision through African myths and literary works within the context of culture, criticism and theory.

Environmental, Urban and Geographic Studies

N 2206 412
GEOGRAPHY OF SUB-SAHARA AFRICA 3.0
Topical and regional study of Africa. Examines soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent.

Fine Arts

G 1003 275
AFRO-AMERICAN ART 3.0
Afro-American art in the United states from colonial times to the present.

G 1003 458
TRADITIONAL ARTS OF SUB-SAHARAN AFRICA 3.0
The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings, relation to ceremony and to daily life; symbolism and relations to the arts of other cultures.

History

P 2205 108
INTRODUCTION TO AFRICAN CIVILIZATION 3.0
Pre-Colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environmental systems of the period.

P 2205 217
HISTORY OF BLACK AMERICANS 3.0
Role of Americans of African descent in the development of the United States. Contributions of Black Americans from initial discovery and exploration to the mid-20th century.

Home Economics

6 1305 445
THE INNER CITY FAMILY 3.0
Sub-cultures residing in large cities. The impact of urbanization, ethnicity, social and economic instutitons. Problems which families encounter. Community contact is part of the course. Fulfills general education requirement.
Prerequisite: Junior/senior standing.

Management

E 0506 332
MINORITIES IN BUSINESS 3.0
Methods and techniques for solving problems minority group members may encounter in business. New or existing personnel in managerial and non-managerial positions in established firms. Minority group members as entrepreneurs; relationships with other members of an organization.
Prerequisite: E 0506 311, F 0509 340.

Music

H 1005 150
INFLUENCE OF AFRO-AMERICAN CULTURE ON MUSIC 3.0
Ways in which the Afro-American culture has affected the development of American folk and art music.

H 1005 209
INTRODUCTION TO JAZZ 3.0
Jazz as an American phenomenon; musical materials as manipulated by jazz artists; the impact on American popular music, dance and theatre; early jazz players and developments.

H 1005 309
THE ART OF JAZZ 3.0
Development of jazz in America and abroad; sociological implications in American society and the impact of jazz upon contemporary composition.

Political Science

S 2207 402
GOVERNMENT AND POLITICS OF AFRICA 3.0
Governmental and political development, organization and practices in sub-Saharan Africa.

S 2207 411
THE POLITICS OF RACE 3.0
Black participation in the American political system from the Colonial period to the present.

Psychology

T 2001 246
PSYCHOLOGY OF THE BLACK EXPERIENCE 3.0
Historical impact of scientific and institutional racism on the psychological study of Blacks. Survey and critical analysis of traditional European approaches with non-traditional methods for comparison. Future development and advancement of a Black Psychology considered.
Prerequisite: T 2001 101.

Sociology

U 2208 202
RACIAL AND ETHNIC RELATIONS 3.0
The social meaning of race and ethnicity. The social, psychological and structural sources of racism; the consequences of this phenomenon to groups; situation and comparative data.

U 2208 205
THE BLACK FAMILY 3.0
The Black family in American society; historical perspectives and contemporary conflicts surrounding the Black family.

U 2208 311
URBAN SOCIOLOGY 3.0
Processes of urbanization and conditions of urban life; nature of urban social relationships; organizations of city life; urban ecological patterns and demographic conditions; municipal and regional influences of metropolitan centers.

Speech and Theatre

I 1008 345
DANCE TECHNIQUE: ETHNIC 3.0
The distinctive techniques customarily related to specific racial and cultural groups. The groups studied will vary from semester to semester. May be taken more than once.

Archaeology Minor (18 semester hours)

Coordinator: Timothy Renner

Jointly sponsored by the Anthropology, Classics, and Fine Arts departments, this minor offers the student an interdisciplinary program in the study of ancient cultures. The minor is flexible enough to allow students to explore the newest scientific techniques in excavation, dating, and laboratory analysis as well as the historical and aesthetic appreciation of the arts of ancient societies. It also encourages the study of foreign languages and those natural sciences which aid in the reconstruction of ancient cultures.

Currently there are two special opportunities for students to participate in excavation as part of their course work: (1) in the northern New Jersey area, where colonial and prehistoric North American cultures are studied first-hand; (2) in Israel, where Montclair participates in an international archaeological project to study the Iron Age, Greco-Roman, and Byzantine cultures of the ancient "Land of Geshur" region.

In general, the Archaeology minor makes an excellent complement to any liberal arts or professional studies major. But more specifically, archaeology has recently become a subject of great interest to many people in the public at large, and students who go on to work in the media, in the travel industry, and in international business (to name only a few examples) can profit greatly from studying it. In addition, the growing need in recent years for more archaeologists to carry out archaeological impact studies for construction and historic preservation projects has created many new opportunities in applied archaeology, especially for students who also study anthropology and/or go on to graduate work in archaeology. Lastly, students who wish to do graduate work in archaeology in preparation for a career in teaching, research, or museum work will find the Archaeology minor to be excellent preparation, especially when combined with a major in an appropriate related area such as Anthropology, Classics, or Art History.

Required Courses

		Semester Hours
2202 205	Prehistoric Archaeology	3
4903 181	Classical Archaeology	3

Electives

Select 12 semester hours from the appropriate list to be obtained from the coordinator of the program. This group of courses will include at least one in fine arts 12

Criminal Justice Minor

Coordinator: David Dodd

This program is open to students in all majors who are interested in pursuing careers in Criminal Justice. It is designed to prepare individuals to apply social scientific thought and methodology to work in Criminal Justice agencies.

Required Courses

		Semester Hours
2208 101	Criminology	3
2208 301	Sociological Research Method I	3
2208 323	Introduction to Criminal Justice	3

Electives

Select 12 semester hours from the appropriate list to be obtained from the Sociology Department, including at least three semester hours from approved courses outside sociology.

Film Minor

An interdisciplinary program, designed for students in both the humanities and the fine arts, the Film minor offers experience in filmmaking, as well as criticism, history, theory, and aesthetics.

Required Courses (6 semester hours)

K 4903 208 M 1511 208	Introduction to the Film	English
G 1010 218	Filmmaking I	Fine Arts

Electives

Survey Courses (6 semester hours)
Students must select two of the following:

G 1010 219	Filmmaking II	Fine Arts
G 1010 299	History of Cinema as Art	Fine Arts
M 1511 250	Major Film Directors	English
M 1511 255	World Film	English
M 1511 260	Major Film Genres	English

Specialized Courses (6 semester hours)
Students must select two of the following:

G 1010 221	Video as Art	Fine Arts
G 1010 453	Filmmaking III	Fine Arts
G 1010 499	Filmmaking IV	Fine Arts
K 4903 288	French Film	French
M 1511 270	The American Film	English
M 1511 290	Drama on Film	English
M 1511 291	Film and Society	English
M 1511 355	The Silent Film	English
M 1511 360	Film Comedy	English
M 1511 370	Film of the Hollywood Studio Years	English
M 1511 470	The Contemporary Film	English
M 1511 490	Special Topics in Film Studies	English
V 4903 277	Italian Film	Spanish/Italian

Women's Studies Minor

The Women's Studies Minor program is an interdisciplinary academic program. The minor includes two required three credit core courses: an introductory interdisciplinary course and an independent study project at the end of the minor program. Flexibility of choice of the other 12 credits from courses in various academic departments permits a student either to get a broad perspective of women's studies or to specialize in an area such as women in literature or women in society. Each student should consult with the faculty advisor of the Women's Studies program, to work out a suitable course of studies to meet the minor requirements. The Women's Studies minor consists of 18 credits.

Required Courses

		Semester Hours
2220 201	Women's Worlds	3
2220 401	Independent Study	3

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the coordinator of the program 12

Additional selected topics courses are offered periodically.

Courses of Instruction

9 2220 102
WOMEN'S WORLDS 3.0
This course introduces the student to the broad and interdisciplinary field known as Women's Studies. Designed to make students aware of the new discoveries in feminist research and to focus on many aspects of the female experience. Designed to help students understand different methodologies in diverse disciplines and to treat areas such as literature, history, psychology, and the arts through a thematic approach. Meets the General Education Requirement and the Minorities Culture requirement. Cross-listed with Psychology under T 2001 102.

9 2220 401
INDEPENDENT STUDY 3.0
This course, required in the senior year, will have two options: A) Advanced research in a project in a particular discipline using the tools a student has acquired in his/her studies; B) A practicum of field work in which a student goes out into the community to work with women and to gain data and first hand experience concerning the practical problems of women within various careers.

C 2204 250
SELECTED TOPICS IN ECONOMICS 3.0
(Economics of Women)
An in-depth study of a particular theoretical or applied area of economics. (Topic will be Economics of Women.)

G 1003 108
WOMEN IN ART 3.0
The role and status of women in art from the old stone age through the present; the special roles of women in the past, in society, the role of women artists in western culture from the Renaissance to the present; depictions of women in different iconographic categories; women as artists today.

J 2202 415
WOMEN IN TRADITIONAL SOCIETY 3.0
Surveys several traditional preindustrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed.

K 4903 186
MYTHS AND IMAGES OF WOMEN IN FRENCH LITERATURE 3.0
Literary treatments of female characters in representative works from the middle ages to the present. Taught in English.

K 4903 383
WOMEN IN ANTIQUITY 3.0
Women in the ancient world and their contributions to history, literature, philosophy, and the arts. Emphasis on Greco-Roman civilization, with comparative study of other ancient cultures.

M 1501 294
WOMEN POETS 3.0
Selected poets from Sappho through Emily Dickinson to Sylvia Plath, examined in relation to contemporary women poets.
Prerequisite: M 1501 160.

M 1503 372
WOMEN PROSE WRITERS 3.0
Readings in the international fiction and non-fiction of women writers. The focus will be on such themes as the nature of the family, changing relationships between women and men, evolving concepts of the "feminine," the impact of colonialism on gender related issues, (i.e., work and women's identity), and interrelationships between religion and women's lives.

M 1501 493
SEMINAR IN AMERICAN LITERATURE 3.0
(Images of Women)
The works of one major American author in depth or of a group of authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or permission of the instructor.

M 1503 492
SEMINAR IN COMPARATIVE LITERATURE 3.0
A culture, theme, era or literary approach studied through international literary masterpieces. Topic: selected writings in Women's Utopian and science fiction literature with an emphasis on the literature of the twentieth century.

P 2205 215
WOMEN IN AMERICAN HISTORY 3.0
History of American women from colonial times to the present, with particular emphasis on women's work, social and political movements, and their changing roles in American society.

P 2205 309
FEMINIST IDEAS IN WESTERN THOUGHT 3.0
History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecraft, Fuller, Mill, and Freud will be considered.

Q 1401 400
SELECTED TOPICS IN LAW 3.0
(Women and Law)
Exploration of a timely and significant area of law. The specific topic will be announced each time that the course is offered.

Q 1505 255
WOMEN AND LANGUAGE 3.0
A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data.

R 1599 267
WOMEN IN RELIGION 3.0
Focuses on women's own experience in religions and the various perspectives of women held by both eastern and western religious traditions. The course deals with questions such as the nature of women, patriarchy and religion, and roles of women in religions.

S 2207 214
WOMEN IN POLITICS 3.0
The role of women in the functioning of the American political system.

T 2201 265
PSYCHOLOGY OF WOMEN 3.0
The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined.
Prerequisite: 6 semester hours in psychology.

U 2208 414
SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0
(Women and Work)
A study of women's work in contemporary society.

U 2208 430
SOCIOLOGY OF SEX ROLES 3.0
The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion. Special emphasis is placed on the impact of social change on sex roles in contemporary society.

2 0826 481
THE LEGAL RIGHTS OF WOMEN 3.0
This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of Affirmative Action, Civil Rights legislation and Titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered.

3 0821 264
SEXISM IN AMERICAN EDUCATION 3.0
Designed to analyze sexism on the American schools. Emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content.

3 0821 463
WOMEN AND EDUCATION IN
MODERN WESTERN SOCIETY 3.0
The role and education of women in particular types of societies. Attention given to the United States, France and Latin America. An effort is made to relate the educational situation of women to their social conditions. Attention given to the education of working class, bourgeois, and aristocratic women.

6 1301 205
WOMEN IN CONTEMPORARY SOCIETY 3.0
Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women.

SPECIAL PROGRAMS

Cooperative Education

Cooperative Education is a unique learning opportunity integrating classroom studies with supervised work experiences. Co-op enables students to explore various career options, gain valuable practical experience prior to graduation and earn money for college expenses.

Faculty, staff or the individual student may arrange paid full- or part-time work experiences in businesses and agencies for a minimum of one semester. All positions are required to meet Co-op work-learning criteria. To register for the program, a student must obtain a "Permission to Register" form from the Co-op office.

Depending upon the academic department, students can earn major or free elective credits. Four, six or eight credits are awarded for each Co-op semester. The exact amount is dependent upon the duration of the position. A maximum of 16 credits can be earned through Co-op.

Students may begin the program as early as the sophomore year. Students with a minimum grade point average of 2.0 and 45 credits are encouraged to participate in the program. Specific departmental criteria may be required. A Professional Preparation Seminar stressing interviewing techniques must be attended by all applicants.

Employers participating in The Co-op program determine the student's job description. Students meeting employers' criteria are referred for interviews. The actual hiring decisions are made solely by the employers.

Once hired, a student is assigned to a faculty coordinator who supervises the learning experience. This coordinator requires academic projects and seminars designed to enhance the student's learning. Work performance is evaluated by the work supervisor. A letter grade is awarded by the assigned faculty member for the completion of all assignments.

Students interested in the Cooperative Education program should contact the office early in their academic careers.

Career Development Co-op Programs

4950 301	Cooperative Education-Experience I	3.0–8.0 Variable
4950 401	Cooperative Education-Experience II	3.0–8.0 Variable

Department Co-op Programs

0701 499	Cooperative Education Computer Science	3.0–8.0 Variable
1507 301	Cooperative Education (English)	8.0
2099 391	Cooperative Education in Psychology	9.0
2208 390	Cooperative Education in Sociology	8.0
0991 405	Cooperative Industrial Internship	4.0–8.0 Variable
2103 381	Cooperative Education in Recreation and Parks	4.0–8.0 Variable
0845 230	Introduction to Business Work Experience	4.0–8.0 Variable
0509 399	Business Work Experience II	4.0–8.0 Variable
1499 326	Seminar and Internship in Law III: Cooperative Education (optional elective)	4.0–8.0 Variable
0503 491	Cooperative Education-Quantitative Methods	3.0–8.0 Variable
0504 491	Cooperative Education-Finance (only for Coop II's)	3.0–8.0 Variable
1102 380	Cooperative Education for the French Major	4.0–8.0 Variable
1104 385	Cooperative Education (Italian)	4.0–8.0 Variable
1105 385	Cooperative Education (Spanish)	4.0–8.0 Variable
1198 385	Cooperative Education (Portuguese)	4.0–8.0 Variable
0401 409	Cooperative Education (Biology)	1.0–4.0 Variable



Health Careers Program

The Health Careers Program provides highly motivated and academically capable disadvantaged students with potential for undergraduate success opportunities to prepare for careers in the health professions. This goal is achieved through a balance of formal course work, comprehensive supportive services, field experiences and financial assistance. Successful completion of the program is designed to increase competitive admission into professional schools.

Acceptance into the program is dependent upon being disadvantaged by virtue of environment or economic circumstances.

The program works in close cooperation with the University of Medicine and Dentistry of New Jersey and Fairleigh Dickinson University School of Dentistry. All field experiences are held at these facilities.

International Studies Program

The Program in International Studies at Montclair State College is designed to coordinate ongoing international and global endeavors on campus, to plan for new efforts, and to develop proposals to enhance international programs at the College. Additionally, the program strengthens the international dimension of teaching and research, develops curricula and learning resources related to international studies, and encourages awareness of global issues among Montclair faculty and students as well as the wider community.

The Program in International Studies has both foreign and domestic functions. In addition to working with the Foreign Student Advisor to ease on-campus study and living experiences for our international students, the program director advises American students regarding study abroad opportunities.

At the present, most of the College's study abroad programs are offered in conjunction with the NJCIE (New Jersey Council for International Education). The NJCIE offers study abroad programs to eligible students attending most of New Jersey's state colleges. It is now in its twenty-second year of operation and has sent nearly two thousand New Jersey students to England, Australia, Denmark, Israel, and a number of other countries. Upon successful completion of the program, students are usually assigned 15–16 credits, which may be applied to fulfill general education, major, or elective requirements. Students usually find that for little more money than they would spend at home they can experience an exciting semester abroad. Students are entitled to the same forms of financial assistance available to regular students, since they are technically considered to be students at their colleges while abroad. In addition to programs offered in conjunction with NJCIE, other opportunities allow students to study in China, Italy, Austria, Argentina, Brazil, and Spain.

Additional information about the program and application forms are available by contacting the Director of International Studies, Dr. Harriet E. Klein, Russ Hall 205, telephone (201) 893-7556.

Reserve Officers Training Corps (ROTC)

Army

The department of Military Science at Seton Hall University offers courses and a program in military science designed to qualify young men and women for commissions in the U.S. Army. Officers commissioned through ROTC are educated by the same professors, under the same curricula and at the same institutions which produce civilian leaders; earn degrees in the field of their choice; represent all geographic, economic and social strata; are highly motivated, open-minded and civilian oriented. Army ROTC aids students by providing leadership and management experience found in few college courses; providing opportunity for a military career in the active army or a reserve component; developing self-discipline, physical stamina and poise; enhancing development of management skills; and developing qualities basic to success in any career.

Montclair State College in concert with Seton Hall University has provided the opportunity for students interested in the ROTC program to receive instruction in basic military science courses at Seton Hall University for college credit. (All military science courses are applicable as free elective credits toward graduation from MSC.) Registration for these basic courses is through MSC. While basic instruction is open to all students, only those with two academic years remaining (undergraduate or graduate) may matriculate into the program leading to a commission as a second lieutenant.

In addition, the Army awards scholarships on a competitive basis to outstanding young men and women who are interested in the Army as a career. The scholarships provide tuition, textbooks, laboratory fees, and a monetary allowance of $100 each month for up to ten months of each school year the award is in effect. Direct inquiries to the Scholarship Officer at Seton Hall, (201-763-3078), or the the MSC Office of the Vice President for Academic Affairs.

Courses of Instruction

9 1801 100
INTRODUCTION TO U.S. ARMY AND ROTC 1.0
Military organizations, customs, tradition, and life-styles. Introduction to basic military skills; role of the U.S. Army; branches of the Army; benefits of the service; professionalism and ethics of the Army officer.

9 1801 110
FUNDAMENTALS OF LEADERSHIP 1.0
Theory, methods and principles for understanding leadership and behavior in groups; the impact of the leader's behavior on the leadership process; and introduction to counseling as a leadership concept.

9 1801 130
TOPOGRAPHICAL MAP READING 1.0
An introduction to topographical map reading and land navigation techniques. Methods of navigating using the magnetic compass and natural terrain features. Use of map and compass in practical orienteering exercises.

9 1801 155
LEADERSHIP DEVELOPMENT 1.0
A study of the skills and knowledge that are the foundations for developing military leaders. Included are military courtesy and discipline, customs and traditions of the service, and an analysis of the leader's role in directing and coordinating the efforts of individuals and small units in accomplishing their missions.

9 1801 160
AMERICAN MILITARY HISTORY 2.0
A study of the development of American military institutions, policies, experiences and traditions in peace and war from colonial times to the present. Emphasis will be on the relationship between the military and other aspects of American society and the role of the military in the establishment, expansion preservation, and development of the nation.

Air Force

Montclair State students can earn appointments as commissioned officers in the U.S. Air Force, through an ROTC cross-town agreement with New Jersey Institute of Technology. Students with two or more years of college remaining in either undergraduate or graduate studies are eligible to apply. Credits for the general military, professional officer courses and aerospace studies, taught at NJIT are applicable as free elective credits toward graduation from MSC. For information on the conditions, benefits, and procedures of the program, contact Air Force ROTC, Detachment 490, telephone (201) 596-3624/3626.

Special Education

Although there is no department of Special Education at Montclair State College, there are four undergraduate and 11 graduate programs which offer preparation for a variety of special education professions. These programs are coordinated by the Council of Special Education Programs (COSEP). This interdisciplinary unit brings together programs from the schools of Humanities and Social Sciences, Professional Studies, and Fine and Performing Arts. Because COSEP encourages academic programs which include practical experience as an essential component of training, it maintains the Psychoeducational Center, which is located on campus. See also the description under the Reading and Study Skills Center.

Information about the following programs may be found in this catalog: Communication Sciences and Disorders (Audiology and Speech Pathology), Music Therapy, Reading, Therapeutic Recreation.



Appendix of Scholarships and Awards

Accounting, Law and Taxation

KATHE BRODT MEMORIAL SCHOLARSHIP
Amount: *$500*
Criteria: *Concentration in accounting, 90 credits completed toward the baccalaureate degree, registered for full-time study (at least 12 semester hours each term during the year of grant), academic achievement and financial need.*
Contact: *Chairperson, Accounting, Law and Taxation Department*

Biology

CHARLES HADLEY MEMORIAL FUND FOR INDEPENDENT STUDENT RESEARCH
Amount: *Up to $275*
Criteria: *Students who have displayed excellence of work and need for financial assistance to complete their research and independent student projects in biology.*
Contact: *Chairperson, Biology Department*

VIOLA WHITNEY PFLEGER FUND
Amount: *$500*
Criteria: *Students of horticulture recommended by chairperson of biology or designee.*
Contact: *Chairperson, Biology Deparement*

Business Administration

RAFFAELA BASILE MEMORIAL SCHOLARSHIP
Amount: *Up to $500*
Criteria: *Upcoming junior or senior in the School of Business Administration, service to the College, favorable academic standing, and financial need.*
Contact: *Dean, School of Business Administration*

Career Services

CHARLES BARGERSTOCK MEMORIAL FUND
Amount: *$500 (per semester)*
Criteria: *Graduate students enrolled in the counseling, human services and guidance program. Available for internship ten hours weekly in Career Services Office, Department of Counseling, Human Services and Guidance, or Graduate Studies Office.*

Chemistry

SOKOL GRADUATE FELLOWSHIP IN CHEMISTRY
Amount: *$10,000*
Criteria: *Senior chemistry major at MSC who will be pursuing the doctorate in chemistry or a closely allied field at an approved graduate school; academic excellence; potential for success in doctoral studies and research.*
Contact: *Chairperson, Chemistry Department*

Cooperative Education

AMERICAN CYANAMID HIGH TECH SCHOLARSHIP
Amount: *$500 per student*
Criteria: *Two awards*
Distinguished scholars or SAT's 1200
Contact: *Financial Aid Office, Dr. Randall W. Richards III*

PRUDENTIAL CO-OP SCHOLARSHIP
Amount: *Varies*
Criteria: *Junior or senior Mathematics or Computer Science majors, SAT's 1200+, grade point average 3.00+.*
Contact: *F. Lazarus, Director, Cooperative Education*

Economics

J. S. GANG SCHOLARSHIP
Amount: *Varies*
Criteria: *To provide incentive to outstanding students in the field of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are academic excellence and financial need.*
Contact: *Office of Development and External Relations*

English

MARY BONDON SCHOLARSHIP AWARD
Amount: *$1,000*
Criteria: *Qualified MSC English Department graduate student pursuing a career in the teaching profession in area of English Literature.*
Contact: *Chairperson, English Department, or English Graduate Program Coordinator*

LAWRENCE H. CONRAD MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *MSC graduate, pursuing graduate degree in American Literature or Creative Writing at the College. Selection based on value of thesis proposal and financial need.*
Contact: *Dr. Morris G. McGee, English Department*

ANTHONY L. LOVASCO MEMORIAL FUND
Amount: *Varies*
Criteria: *Outstanding English student.*
Contact: *Chairperson, English Department*

BESSIE SASLAW SOLOMON MEMORIAL SCHOLARSHIP
Amount: *Varies*
Contact: *Chairperson, English Department*

Environmental, Urban and Geographic Studies

BERTRAND BOUCHER SCHOLARSHIP FUND
Amount: *Varies*
Criteria: *Environmental, Urban and Geographic Studies major.*
Contact: *Chairperson, Environmental, Urban and Geographic Studies Department*

Fine Arts

THE ELFRED S. GROVER MEMORIAL SCHOOL IN ART AND DESIGN
Amount: *Varies*
Contact: *Chairperson, Fine Arts Department*

HOLLACE M. WYCKOFF SCHOLARSHIP
Amount: *Varies*
Criteria: *One student from each department, School of Fine and Performing Arts, high academic standing.*
Contact: *Office of College Development.*

French

FRENCH DEPARTMENT SCHOLARSHIP FOR GRADUATE STUDY
Amount: *$500 ($250 per semester)*
Criteria: *Financial need and merit.*
Contact: *Chairperson, French Department*

Geography

MILSTEAD AWARD FOR EXCELLENCE IN GEOGRAPHY
Amount: *Approximately $150*
Criteria: *Junior major in environmental, urban and geographic studies with high academic standing; minimum 12 hours in major—shows future promise as a professional geographer.*
Contact: *Dr. Harbans Singh, Environmental, Urban and Geographic Studies Department.*

German/Slavic

OVERSEAS NEIGHBORS EXCHANGE SCHOLARSHIP
Amount: *28,000 Austrian Schillings (about $1,700), plus room, health insurance and 20-day pass on Austrian National Railway.*
Criteria: *Undergraduate student fluent in German, ability to do university work. Decision made by interview committee.*
Contact: *Chairperson, German/Slavic Department. Apply during early spring semester.*

Graduate Studies

HAROLD C. BOHN FELLOWSHIP
Amount: *Varies*
Criteria: *Senior who shows promise in any academic discipline and presents a bonafide plan for graduate study.*
Contact: *Office of Development and External Relations.*

WILLIAM A. CUFF MEMORIAL AWARD
Amount: *$500*
Criteria: *Deserving student entering the teaching field, must consult with Dr. Michelli, Dean, School of Professional Studies.*
Contact: *Dean, School of Professional Studies*

PHI DELTA KAPPA SCHOLARSHIP
Amount: *Varies. Usually two awards covering cost of one graduate course.*
Criteria: *Matriculated student in education master's degree program.*
Contact: *Dean, School of Professional Studies*

SIMONE PICARD ASSISTANCE FUND
Amount: *Varies*
Criteria: *Student enrolled in a master's degree or other post-baccalaureate program at Montclair State College. Preference will be given to applicants preparing for careers in teaching or related educational areas. Under circumstances deemed exceptional by the Committee; partial assistance may be granted to baccalaureate degree students who have completed at least 60 semester hours of work of which 24 semester hours had been completed at Montclair State College.*
Contact: *Dr. Bertha B. Quintana, Anthropology Department*

THE ERCELL I. WATSON MEMORIAL FUND
Amount: *$100*
Criteria: *Educator who is matriculated in or a graduate of a master's degree program in the School of Professional Studies.*
Contact: *Dean, School of Professional Studies*

Health Professions

PANZER TRUST INCENTIVE SCHOLARSHIP
Amount: *$200*
Criteria: *Health major who has been accepted for graduate work at a college or university.*
Contact: *Chairperson, Department of Physical Education, Recreation and Leisure Studies*

Hispanic Students

NORTH WARD CENTER SCHOLARSHIP
Amount: *$500 (2 awards)*
Criteria: *MSC students from the North Ward Center's Hispanic Community.*
Contact: *Director of Development and External Relations*

History

JULIAN J. JAFFE MEMORIAL AWARD
Amount: *$75–$100*
Criteria: *Undergraduate student who has shown distinction in history and a "concern for the truth about the past."*
Contact: *Chairperson, History Department*

WILLIAM McLEAN SCHOLARSHIP
Amount: *$500 (junior or senior year)*
Criteria: *Outstanding junior-year history major who has demonstrated appreciation of the comprehensiveness of historical study and the interrelatedness of history, the social sciences and the humanities. A minimum average of 3.00 in history and an overall average of at least 2.67 are required.*
Contact: *Chairperson, History Department*

GARY RICHARD TAMIRIAN MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *Outstanding junior or senior history or political science major with a 3.50 or better cumulative grade point average. Demonstration of service to community, committed to humanitarian endeavors.*
Contact: *Dr. Peter Macaluso, History Department*

Home Economics

ESSEX COUNTY HOME ECONOMICS EXTENSION COUNCIL SCHOLARSHIP
Amount: *$200*
Criteria: *Junior student; high academic standing; financial need; professional potential; resident of Essex County.*
Contact: *Chairperson, Home Economics Department*

ESSEX/HUDSON ECONOMICS ASSOCIATION SCHOLARSHIP
Amount: *$200*
Criteria: *Junior student; high academic standing; professional potential; financial need; Essex or Hudson county resident.*
Contact: *Chairperson, Home Economics Department*

FASHION STUDIES AWARD
Amount: *$100*
Criteria: *Fashion studies or consumer affairs major with clothing and textiles, interior design, household equipment and housing concentration; high academic standing; participation in college and/or community activities; professional potential.*
Contact: *Chairperson, Home Economics Department*

KATHARINE B. HALL ALUMNI AWARD
Amount: *$100*
Criteria: *Junior who is a member of the MSCHEA, has a B or better average, and is outstanding in social and professional activities.*
Contact: *Chairperson, Home Economics Department*

MONTCLAIR STATE COLLEGE HOME ECONOMICS ASSOCIATION SCHOLARSHIP
Amount: *$100 or more*
Criteria: *Junior or senior standing; high academic standing; professional potential as demonstrated in professional/community activities; financial need; active in MSC Home Economics Association.*
Contact: *Chairperson, Home Economics Department*

NEW JERSEY HOME ECONOMICS ASSOCIATION SCHOLARSHIP
Amount: *$200*
Criteria: *Sophomore or junior student with a B or better average—active participation in MSCHEA.*
Contact: *Chairperson, Home Economics Department*

Juniors and Seniors

ALUMNI ASSOCIATION SCHOLARSHIP
(Includes the Dortch/Dickson Scholarship)
Amount: *$1,000 (22 scholarships)*
Criteria: *Service to the campus; good academic standing; juniors and seniors; financial need.*
Contact: *Alumni House (applications available in January—deadline March 1st for following academic year)*

ALUMNI ENDOWMENT SCHOLARSHIP
Amount: *$250 to $1,000*
Criteria: *Good academic standing (i.e., minimum cumulative grade point average of 3.0) and financial need.*
Contact: *Dean of Students*

NEW JERSEY BELL TELEPHONE COMPANY SCHOLARSHIP
Amount: *To be determined—two scholarships*
Criteria: *One junior student—one senior student. One male student—one female student. 3.50 average or better. Leadership and service to the College and community (awarded in late fall or early spring).*
Contact: *Director of Financial Aid*

Mathematics and Computer Science

PRUDENTIAL CO-OP SCHOLARSHIP
Amount: *Varies*
Criteria: *Junior or senior Mathematics or Computer Science majors, SAT's 1200+, grade point average 3.00+.*
Contact: *F. Lazarus, Director, Cooperative Education*

MAX A. SOBEL FELLOWSHIP
Amount: *Amount and frequency varies.*
Criteria: *Graduate student in mathematics education; nominated by mathematics education faculty.*
Contact: *Chairperson, Mathematics and Computer Science Department*

JOHN C. STONE FUND
Amount: *$400—may vary*
Criteria: *Recommendation of Mathematics and Computer Science Department faculty with chairperson's approval—mathematics or computer science major.*
Contact: *Chairperson, Mathematics and Computer Science Department*

Media

EMANJ GRADUATE STUDY SCHOLARSHIP IN EDUCATIONAL MEDIA
Amount: *$500 (two scholarships)*
Criteria: *Graduate media student, New Jersey*
Contact: *Associate Professor of Media and Technology*

EMMA FANTONE MEDIA GRANT
Amount: *Varies (provides for attendance at media conference in media field)*
Criteria: *Student interested in making media a career.*
Contact: *David S. Fogg, Media Center*

Merit Scholarships

ALUMNI ASSOCIATION INCENTIVE SCHOLARSHIP
Amount: *$1,000 (5 scholarships, non-renewable)*
Criteria: *Incoming full-time freshman; top 5% of his/her high school class; minimum combined SAT score of 1,000; record of school/community involvement; recommended by high school counselor.*
Contact: *Admissions office*

GEORGE G. KING MEMORIAL AWARD
Amount: *$100*
Criteria: *Outstanding contribution in community service, i.e., through community agencies.*
Contact: *Dean, School of Professional Studies*

THE PHYLLIS LEBOFF ENDOWMENT FUND IN HONOR OF HER HUSBAND, GERALD A. LEBOFF
Amount: *Varies*
Criteria: *Talented and gifted undergraduate and graduate students.*
Contact: *Office of Development and External Relations*

HARRY S. TRUMAN SCHOLARSHIP— GOVERNMENT SERVICE LEADERSHIP DEVELOPMENT
Amount: *Varies (maximum $5,000 a year for up to 4 years)*
Criteria: *A merit scholarship awarded at the end of sophomore year to a student anticipating government service. Merit basis.*
Contact: *Dr. Grosvenor Rust, Educational Leadership Dept.*

MARY A. WHALEY MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *Incoming freshman to Montclair State College; gifted, middle income background; those who do not qualify or take advantage of financial aid; or to supplement these aids for those who do.*
Contact: *Office of Development and External Relations*

Modern Language

MARGARET B. HOLTZ FUND FOR STUDENT EXCHANGE
Amount: *$200–$1,000*
Criteria: *Student working in the field of modern language outside the U.S. and whose candidacy has approval of members of the Margaret B. Holtz Board of Trustees.*
Contact: *Dr. David Kelly, of Classics or Office of Development and External Relations*

Music

LARRY A. FRANK MUSIC SCHOLARSHIP
Amount: *Varies*
Criteria: *Music student who shows promise as a music educator, music performer, music therapist, music composer, theorist or historian.*
Contact: *Chairperson, Music Department*

HOWE SCHOLARSHIP
Amount: *Varies*
Criteria: *Promise of ability and interest—restricted to student of the organ.*
Contact: *Chairperson, Music Department*

EDNA McEACHERN MUSIC FUND
Amount: *Varies*
Criteria: *Financial need, musicianship and contribution to the department.*
Contact: *Chairperson, Music Department*

THE CHARLES G. MUNIER MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *A deserving piano student—preferably a junior recommended by faculty in the Music Department*
Contact: *Chairperson, Music Department*

CAROL H. WASSERMAN PIANO SCHOLARSHIP
Amount: *Varies*
Contact: *Chairperson, Music Department*

HOLLACE M. WYCKOFF SCHOLARSHIP
Amount: *Varies*
Criteria: *One student from each department, School of Fine and Performing Arts, high academic standing.*
Contact: *Office of College Development*

Physical Education

PAUL P. BOGATKO SCHOLARSHIP
Amount: *Varies*
Criteria: *To provide incentive to a student in good standing and financial need in the field of physical education who is a graduate of East Side High School, Newark, N.J.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*



MARGARET C. BROWN SCHOLARSHIP
(Donated by Robert Weston, '47)
Amount: *$150*
Criteria: *Sophomore physical education major with highest cumulative average who reflects some of Dr. Brown's professional ideals through leadership, service or participation in professional physical education activities on or off campus (i.e., conferences, workshops, conventions).*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

JOSEPH PAUL CERES SCHOLARSHIP
Amount: *Varies*
Criteria: *Outstanding sophomore or junior woman gymnast with exceptional ability and leadership in gymnastics.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

NICHOLAS CICCONE SCHOLARSHIP
Amount: *Varies*
Criteria: *Junior physical education major with skill in motivating older adults to keep fit through movement activities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

SUE FULLER MEMORIAL SCHOLARSHIP
Amount: *$500 approximately*
Criteria: *Junior woman in physical education—outstanding contributions through service to athletics (i.e. manager, publicity, statistician, etc.).*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

GERALD A. GARAFOLA SCHOLARSHIP
Amount: *$250*
Criteria: *Physical education sophomore who has made distinguished contributions and shown leadership in department activities, must have cumulative average of 2.80 or better.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

A. J. GORTON SCHOLARSHIP
Amount: *$100*
Criteria: *Junior maintaining a continuous satisfactory level of performing at a high level of skill in physical education activities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DOUGLAS GREULICH MEMORIAL SCHOLARSHIP
(Presented by Delta Chapter of Phi Epsilon Kappa Fraternity)
Amount: *$50*
Criteria: *Student who participates in some phase of the intercollegiate athletic program, has involvement in community and professional programs and exhibits high scholastic achievement (target 3.00 cumulative average).*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DEAN MARTINO MEMORIAL SCHOLARSHIP
Amount: *$100*
Criteria: *Junior physical education major who demonstrates a specific quality of Dean, as well as a willingness of the student to give time to others.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

JOSEPH NERENBERG SCHOLARSHIP
(Presented by Old Times Athletes)
Amount: *$100*
Criteria: *Freshman physical education major with highest scholastic record who, through participation in athletics, best represents sportsmanship as well as good scholarship.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PANZER STUDENT ASSOCIATION ADAPTED PHYSICAL EDUCATION AWARDS
Amount: *Varies*
Criteria: *Students who demonstrate exceptional service and qualities of leadership, understanding and creativity while fulfilling practicum assignments in the adapted area.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PANZER STUDENT SERVICE AWARD
Amount: *$50 Bond*
Criteria: *Student in good academic standing, who has provided outstanding leadership and service to the Panzer Student Association*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PANZER TRUST FUND
(3 incentive scholarships)
Amount: *$200*
Criteria: *Freshmen entering Montclair State College in the fall. Three scholarships will be attainable:*
1. Physical Education major
2. Recreation and Leisure Studies major
3. Health Careers major
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department—for #1 and #2*
Chairperson, Health Professions Department for #3

PANZER TRUST INCENTIVE SCHOLARSHIP
Amount: *$200*
Criteria: *For the recreation major who has been accepted for graduate work at a college or university.*

PANZER ALUMNI SCHOLARSHIP
Amount: *$200*
Criteria: *Freshman physical education student with highest scholastic average and evidence of professional competence.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

ELVERA DE MUTH PERKINS SCHOLARSHIP
Amount: *$200*
Criteria: *Freshman Physical Education major who gives evidence of promise for making positive contributions to the field of physical education; financial need.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PHI EPSILON KAPPA AWARD, DELTA CHAPTER
Amount: *$50*
Criteria: *Recreation major who has shown constructive leadership in student activities and has a cumulative grade point average of at least 3.00.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

ELYSIA PHILIPP SCHOLARSHIP
Amount: *Varies*
Criteria: *A capable student in need of aid to continue his/her education in the Panzer Department of Physical Education. Evidence of need required.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DR. RICHARD W. TEWS AWARD
Amount: *$50*
Criteria: *Contribution to physical education through services in the Panzer Student Association; cumulative grade point average of 2.75 or more.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

THOMAS THOMAS SCHOLARSHIP
Amount: *$100*
Criteria: *Two physical education junior students who have shown particular interest and skill in working with individuals possessing development disabilities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DR. HAZEL M. WACKER AWARD
Amount: $50
Criteria: For a student who contributes to physical education through service in the Panzer Student Association, and who has a cumulative average of 2.75 or more.
Contact: Chairperson, Physical Education, Recreation and Leisure Studies Department

DOROTHY AND VINCENT FARRELL SCHOLARSHIP
Amount: Varies
Criteria: Freshman only, high academic achievement and active participation in Department activities.
Contact: Chairperson, Physical Education, Recreation and Leisure Studies Department

THERESA FARRELL AWARD
Amount: Varies
Criteria: Sophomores only; highest scholastic standing.
Contact: Chairperson, Physical Education, Recreation and Leisure Studies Department

Physical Education, Recreation and Leisure Studies

SCOTT AND DOROTHEA HARRIS SCHOLARSHIP
Amount: Varies
Criteria: Sophomores only, scholastic achievement 3.00 cumulative grade point average, good citizen of the College and the community, gives promise of being a successful teacher of physical education.
Contact: Chairperson, Physical Education, Recreation and Leisure Studies Department

MATTHEW (PAT) KENNEDY SCHOLARSHIP
Amount: Varies
Criteria: Freshman only, acceptable academic achievement, positive image, competencies in a number of physical education areas.
Contact: Chairperson, Physical Education, Recreation and Leisure Studies

Political Science

J. S. GANG SCHOLARSHIP
Amount: Varies
Criteria: To provide incentive to outstanding students in the fields of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are to have excelled academically and to be in financial need.
Contact: Office of Development and External Relations

Psychology

WILLIAM DORTCH, JR. SCHOLARSHIP
Amount: $700
Criteria: Entering Freshman with high school grade of C or better; financial need; appreciation of Christian ethic; potential contribution to field of human development; also matriculated students who meet these criteria.
Contact: Black Student Cooperative Union or Psychology Department

ORPHA M. LUTZ LOAN FUND
Amount: Varies
Criteria: Financial loan to Montclair State College student majoring in psychology.
Contact: Chairperson, Psychology Department

JEROME M. SEIDMAN AWARD FOR EXCELLENCE IN PSYCHOLOGY
Amount: $100 each
Criteria: The man and woman graduating psychology majors with the highest cumulative averages. In the event of a tie, selection based on service to school and community. Awarded annually in May.
Contact: Chairperson, Psychology Department

School of Business Administration

MICHAEL AND GERTRUDE HANCOUSKI FUND
Amount: Varies
Contact: Dean, School of Business Administration

School of Professional Studies

THE J. THOMAS FLAGG OUTSTANDING STUDENT TEACHERS AWARD
Amount: $100
Criteria: Senior completing student teaching and nominated by faculty member.
Contact: Dean, School of Professional Studies

TEACHERS CLUB OF MONTCLAIR MERIT SCHOLARSHIP FUND
Amount: Varies
Criteria: Junior admitted to Teacher Education.
Contact: Dean, School of Professional Studies

Second Careers

RALPH P. LASALLE SCHOLARSHIP
Amount: $100
Criteria: Part-time Montclair State College student enrolled in a degree program—50 years of age and older—awarded in the spring and fall.
Contact: Second Careers Program

Spanish/Italian

TERESA DEESCORIZA SCHOLARSHIP, SARA PRIETO SCHOLARSHIP
Amount: Varies (two scholarships)
Criteria: Merit—sophomore standing, minimum 12 credits in Spanish at time of application, extracurricular activities at Montclair State College, community services, special honors, financial need.
Contact: Spanish and Italian Department

ITALIAN CLUB SCHOLARSHIP
Amount: Varies
Criteria: Interest in Italian culture or language, to further education here or abroad; must have good scholastic average; letter of recommendation; and some financial need.
Contact: Spanish and Italian Department or Italian Club

SARA PRIETO SCHOLARSHIP
Amount: Varies
Criteria: Merit—Sophomore standing, minimum 12 credits in Spanish at time of application, extracurricular achievement at MSC, community service, special honors, financial need. specifically for study abroad.
Contact: Spanish/Italian Department

Speech and Theatre

WILLIAM A. BALLARE MEMORIAL FUND
Amount: Varies
Criteria: 1. Speech and Theatre major enrolled in teachers' certificate program, 2. undergraduate, 3. highest academic average in teachers' certificate program, 4. demonstrates positive potential to teach.
Contact: Chairperson, Speech and Theatre Department

THE DANCE SCHOLARSHIP
Amount: Varies
Criteria: Outstanding dance student chosen on basis of potential, contribution and talent.
Contact: Chairperson, Speech and Theatre Department

THE JOSEPH F. BELLA THEATRE AWARD
Amount: Varies
Criteria: Outstanding B.F.A. technical major chosen on basis of potential, contribution and promise of talent.
Contact: Chairperson, Speech and Theatre Department

MALCOM FAIRFIELD FUND
Amount: Varies
Criteria: Financial support for special student and faculty activities beyond normal College budgeting. Student pursuing independent study in theatre—apply by submitting a proposal for amount of money.
Contact: Chairperson, Speech and Theatre Department

DENNIS K. McDONALD SCHOLARSHIP AND AWARD IN THEATRE

Amount: $100
Criteria: Theatre graduate or undergraduate (junior or senior)—Performance quality, professional potential, evidence of continued development, 3.00 in theatre courses.
Contact: Chairperson, Speech and Theatre Department

DENNIS K. McDONALD MEMORIAL SCHOLARSHIP

Amount: $300
Criteria: Freshman student pursuing B.F.A. in theatre—audition required—academic competence. Based on admission audition.
Contact: Chairperson, Speech and Theatre Department

HOLLACE M. WYCKOFF SCHOLARSHIP

Amount: Varies
Criteria: One student from each department, School of Fine and Performing Arts, high academic standing.
Contact: Office of College Development

Student Teaching

RUTH LEWIN ENDOWMENT FUND

Amount: varies (2 or 3 awards annually)
Criteria: To be used specifically for helping students in teacher education, who need financial assistance; no other requirements stipulated.
Contact: Dean, School of Professional Studies

THE J. THOMAS FLAGG OUTSTANDING STUDENT TEACHER AWARD

Amount: $100
Criteria: Senior completing student teaching and nominated by faculty member.
Contact: Dean, School of Professional Studies

BERGEN COUNTY RETIRED EDUCATORS ASS'N SCHOLARSHIP

Amount: $500 (2 awards annually)
Criteria: One sophomore and one junior student, full-time students, 3.0 GPA and potential teacher; preference given to Bergen County, N.J. residents.
Contact: Director of Financial Aid

LARRY DOBY SCHOLARSHIP—NJ NETS

Amount: Varies
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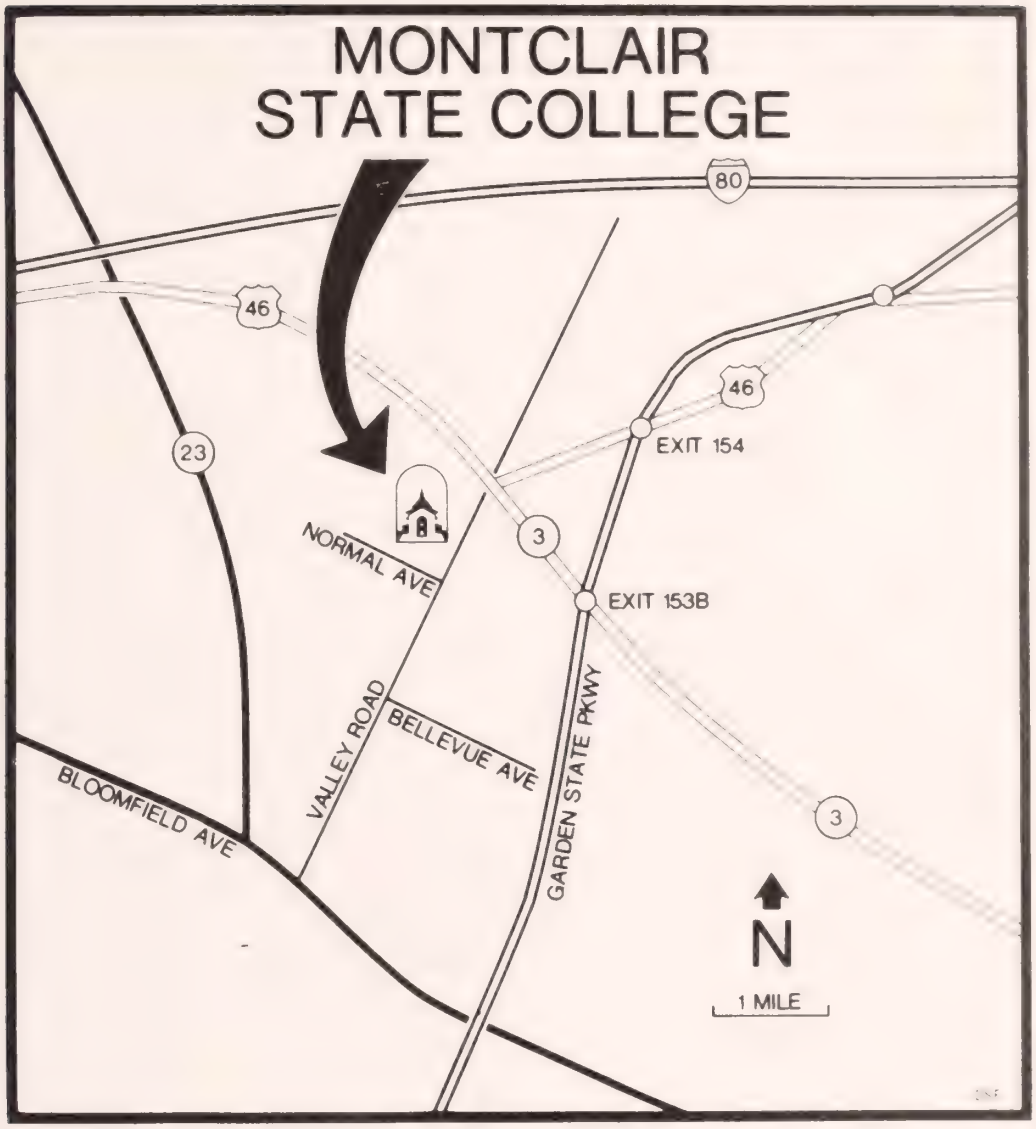
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Directions to the Campus



MSC is on Valley Road and Normal Avenue, Upper Montclair (turn at the light). The college is one mile south of the junction of Routes 3 and 46 on Valley Road.

BY CAR FROM:

Bloomfield Ave., Montclair: North on Valley Road (by fire department), 3.3 miles to Normal Avenue light, turn left.

Route 46 (East and West): Valley Road, Montclair exit (at Route 3 junction), south for approximately one mile to Normal Avenue light, turn right.

Route 3: Valley Road, Montclair exit (at Route 46 junction), south for approximately one mile to Normal Avenue light, turn right.

Garden State Parkway North: Exit 153B (left lane) to Route 3 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

Garden State Parkway South: Exit 154 to Route 46 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

New Jersey Turnpike: Exit 16W to Route 3, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right. Motorists traveling on the Turnpike South to Exit 11 may exit there to Garden State Parkway North.

Lincoln Tunnel: follow to Route 3.

George Washington Bridge: Route 80 to Garden State Parkway south.

BY PUBLIC TRANSPORTATION FROM:

New York City (by bus): DeCamp Bus No. 66 leaves Platform 417, Port Authority Bus Terminal at half past the hour. Get off at Mt. Hebron and Valley Roads, turn right (north) on Valley and walk one long block to the Normal Avenue traffic light, then turn left to campus entrance.

New York City (by train): Take PATH service to Hoboken, transfer to NJ Transit Boonton Line, and get off at Montclair Heights Station at southwest corner of campus. (Service available only in the afternoon and evening.)

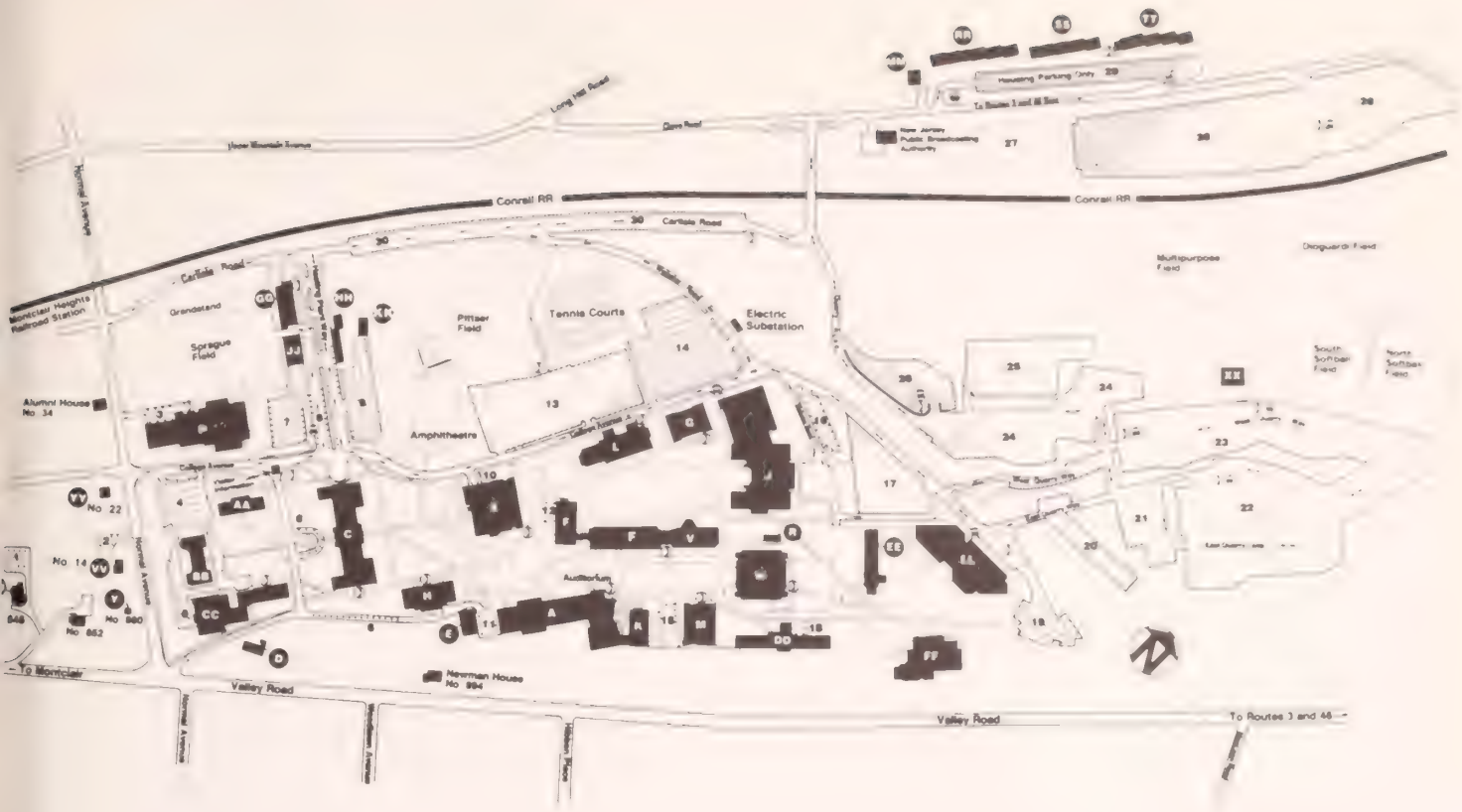
Newark: Transport of New Jersey Bus No. 60 originates at Macy's, Market and Washington Streets and terminates its run on campus. Every 17 minutes.

The Oranges: New Jersey Transit Bus No. 64 originates at Veterans Administration Hospital, Tremont Avenue, East Orange, travels along main streets in the Oranges to Bloomfield Avenue, Montclair. Change to No. 60 at Montclair Center. Once an hour.

Paterson: New Jersey Transit Bus No. 72 originates at Broadway Terminal, Paterson and goes to Broad Street, Bloomfield. Change to No. 60 at Bloomfield Center. Every 45 minutes

Jersey City: Friendly Bus Service No. 22 originates at Platform D4 in Journal Square Path Center and ends its run on campus. (Last bus leaves MSC at 6 pm.)

Wayne: New Jersey Transit Bus P5 originates at Willowbrook Mall and ends its run on campus.



MONTCLAIR STATE COLLEGE

UPPER MONTCLAIR N.J.

TELEPHONE: 201-893-4000

BUILDINGS

- A LIFE HALL
  MEMORIAL HALL
  FINE and PERFORMING ARTS
- C COLLEGE HALL-ADMINISTRATION & ADMISSIONS
- D GILBRETH HOUSE-PSYCHOLOGICAL SERVICES
- E TEMPORARY CLASSROOM ANNEX
- F FINLEY HALL
- G PARTRIDGE HALL-HUMANITIES
- H MOREHEAD HALL
  BUSINESS ADMINISTRATION
- J STUDENT CENTER
- K SPEECH BUILDING
- L CALCIA FINE ARTS BUILDING
- M McEACHERN MUSIC BUILDING
- P PANZER SCHOOL CENTER-GYMNASIUM and SWIMMING POOL
- R DROP-IN CENTER
- S SPRAGUE LIBRARY
- V MALLORY HALL
- W RICHARDSON HALL-MATHEMATICAL & NATURAL SCIENCES
- Y CONTINUING EDUCATION
- AA CHAPIN HALL-PROFESSIONAL STUDIES
  CAMPUS POLICE
- BB RUSS HALL-SOCIAL SCIENCES
- CC FREEMAN HALL-STUDENT HOUSING
- DD STONE HALL-STUDENT HOUSING
- EE WEBSTER HALL-STUDENT HOUSING
- FF BOHN HALL-STUDENT HOUSING
- GG MAINTENANCE BUILDING
- HH POWER AND ENERGY LABORATORY
- JJ HEATING PLANT
- LL BLANTON HALL-STUDENT HOUSING & HEALTH CENTER
- MM PSYCHO-EDUCATIONAL CENTER
- RR CLOVE RD. APTS. (100)-STUDENT HOUSING
- SS CLOVE RD. APTS. (200)-STUDENT HOUSING
- TT CLOVE RD. APTS. (330)-STUDENT HOUSING
- UU VAN REYPER/BOND HOUSE
- VV CONTINUING EDUCATION ANNEX
- XX RECREATION BUILDING
- YY FACULTY/STUDENT COOPERATIVE INC.

PARKING

- XX 1 FACULTY and STAFF
- XX 2 FACULTY and STAFF
- XX 3 PHYSICAL EDUCATION and ATHLETIC DEPT.
- XX 4 FACULTY and STAFF
- XX 5 STUDENT HOUSING STAFF
- XX 6 VISITOR
- XX 7 FACULTY and STAFF
- XX 8 FACULTY and STAFF
- XX 9 FACULTY and STAFF (Compact Cars Only)
- XX 10 LIBRARY FACULTY and STAFF
- XX 11 FACULTY and STAFF
- XX 12 INDUSTRIAL ARTS DEPT. FACULTY and STAFF
- 13 STUDENT
- XX 14 FACULTY and STAFF
- XX 15 DISABLED
- XX 16 VISITOR
- 17 STUDENT
- XX 18 STUDENT HOUSING STAFF
- XX 19 STUDENT HOUSING STAFF
- 20 STUDENT
- 21 STUDENT
- 22 STUDENT
- 23 STUDENT
- 24 STUDENT
- 25 STUDENT
- 26 STUDENT
- 27 STUDENT
- 28 STUDENT
- 29 STUDENT
- 30 STUDENT

SYMBOLS

- EMERGENCY PHONE
- SHUTTLE BUS STOP



Montclair
State
College
UPPER MONTCLAIR, NJ 07043

Office of Admissions

FOURTH CLASS
BOOK RATE



UNDERGRADUATE CATALOG
1990 • 1992

MONTCLAIR STATE

Montclair State College at a Glance

Location:

200-acre campus, at the intersection of Valley Road and Normal Avenue, Upper Montclair, New Jersey (Essex County), one mile south of intersection of Valley Road and Route 46. Main entrance on Normal Avenue.

Background:

Established in 1908, and is a state-supported, coeducational, four-year college of liberal arts and sciences. Has offered Master of Arts programs since 1930, Master of Business Administration since 1981 and Master of Education since 1985.

Enrollment:

About 10,200 undergraduates and 3,000 graduate students in 1989. Students come from all New Jersey counties, from other states, and from foreign countries. Some 2,000 live on campus with the remainder living in off-campus accommodations or commuting from home.

Faculty:

The college has 445 full-time faculty members. About 80 percent have terminal degrees.

Accreditation:

Accredited by the Middle States Association of Colleges and Schools, and by the National Council for the Accreditation of Teacher Education.

Degrees Offered:

Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Master of Arts, Master of Arts in Teaching, Master of Education and Master of Business Administration.

Facilities:

Ten major academic buildings, student center building, library, gymnasium, playing fields, administration building, and housing for 2,000 students in residence halls and apartments.

Costs:

Annual tuition and fees (1989-90): $2,168 (based on 32 semester hours, undergraduate, New Jersey resident). Annual room and board (1989-90): $4,064 (based on single room and 19-meal plan).

Financial Aid:

Some form of aid is provided to approximately 60 percent of qualified full-time students. Aid is available as loans, scholarships, grants, and employment.

Montclair State College is an Equal Opportunity/Affirmative Action Institution. In compliance with relevant federal and state civil rights legislation, the College does not discriminate on the basis of sex, race, color, religion, national origin, age, or physical capability in the operation of its educational program or activities (admission, access to programs and course offerings, physical education, competitive and intramural athletics, counseling, student and other employment, use of facilities, and College sponsored extracurricular activities).

Inquiries relating to equal opportunity/affirmative action issues may be directed to the offices of Student Affairs or Equal Opportunity/Affirmative Action.

The Undergraduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change any of its announcements, regulations or requirements at any time without notice or obligation. The Office of Academic Affairs is responsible for the preparation of the content of this publication.

Undergraduate Catalog 1990-1992

Admissions
203 College Hall
(201) 893-4444

Financial Aid
321 College Hall
(201) 893-4461

Registrar
204 College Hall
(201) 893-4376, 4136

Residence Facilities
411 Bohn Hall
(201) 893-4156, 5188

Office of Publications
Montclair State College
Upper Montclair, N.J. 07043

June 1990

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Statement on the Undergraduate Program

The Board of Trustees of Montclair State College reaffirms its belief that the liberal arts and sciences form the essential basis of an undergraduate program of higher education.

In an era of decreasing resources, diminished public support, and increased popular interest in vocationalism, there are strong pressures to succumb to temporary concerns, and in doing so to lose sight of the enduring and essential purpose of a college education. There are also economic and political forces which, if not constrained by thoughtful response, threaten the integrity of academic processes and the quality of academic standards of institutions of higher education everywhere.

The Board of MSC believes that the College has the special purpose of contributing to, critically examining, preserving and transmitting the culture of our society to succeeding generations, and that the protection of this purpose is the public trust for which we are primarily responsible. We believe that the progress of the College towards this goal has been exemplary, and in particular we applaud the steps already taken by the faculty and administration to maintain and enhance these values. Consistent with the policy and planning function of the Board, however, we believe that faculty and administration efforts might be enhanced by an understanding of what the Board sets forth as a vision of the undergraduate program:

1. a rigorous and comprehensive program of general education required of all students which includes not only advanced learning skills and preparation for effective citizenship, but which also fosters an appreciation of a shared human heritage leading to the enhancement of the quality of both personal and community life;
2. an enrollment reflecting a balance between those students majoring in liberal arts programs, and those in professional and career programs which in addition to their own strengths, are soundly rooted in and related to the strengths of our liberal arts departments;
3. support programs which assist underprepared students who share our goals to meet the demanding standards of which we think they are capable if suitably challenged, excited and educated;
4. ongoing processes of program review and evaluation in which the joint efforts of faculty, administration and Board ensure maintenance of the highest standards of quality;
5. a diverse student body reflecting different cultural and social backgrounds, but united by a common commitment to the academic values for which the College stands;
6. programs which strengthen the efforts of an able and dedicated faculty and which support the scholar's continuing need for intellectual and personal renewal.

In setting these general goals, the Board recognizes the difficult economic and political environment likely to face higher education in the future, and that many other institutions have chosen to confront these challenges in a manner different from our own. We believe, however, that the need to create a distinctive mission and climate for the College and to prepare students fully for an uncertain but clearly difficult future requires us to make this commitment.

It is the Board's intent to view its future consideration of new policies and programs within the context of this statement, and to have prepared for campus discussion a brief annual report concerning activities and progress in each of the six areas.



Academic Calendar
1990-1992*

Fall Semester 1990

Registration	To Be Announced
Residence Halls Check-in:	
New Students	August 30
Returning Students	August 31
Classes Begin	September 4
Thanksgiving Holiday (No Classes)	November 22-25
Classes End	December 16
Examination Period	December 17-23
Residence Halls Close	December 23
End of Semester	December 23

Winter Session 1991

Registration	To Be Announced
Classes	January 2-18 (14 sessions; classes meet Saturday, January 5)

Spring Semester 1991

Registration	To Be Announced
Residence Halls Check-in:	
All Students	January 21
Classes Begin	January 22
Spring Recess (No Classes)	March 25-31
Classes End	May 16
Examiniation Period	May 17-23
Residence Halls Close	May 23
End of Semester	May 23
Commencement	May 24

Summer Sessions 1991

Registration	To Be Announced
Residence Halls Check-in:	
All Students	June 23
Pre-Session (No Friday Classes)	May 28-June 13 (11 sessions)
Saturday Classes	June 8-August 10 (10 sessions)
Eight-Week Session (No Friday Classes)	June 10-August 1
Six-Week Session (No Friday Classes)	June 24-August 1
Independence Day Holiday (No Classes)	July 4
Residence Halls Close	August 2
Post-Session (No Friday Classes)	August 5-22 (12 sessions)

Fall Semester 1991

Registration	To Be Announced
Residence Halls Check-in:	
New Students	August 29
Returning Students	August 31
Classes Begin	September 3
Thanksgiving Holiday (No Classes)	November 28-December 1
Classes End	December 16
Examination Period	December 17-23
Residence Halls Close	December 23
End of Semester	December 23

Winter Session 1992

Registration	To Be Announced
Classes	January 2-17 (12 sessions)

Spring Semester 1992

Registration	To Be Announced
Residence Halls Check-in:	
All Students	January 19
Classes Begin	January 20
Spring Recess (No Classes)	March 16-22
Good Friday/Easter Holiday (No Classes)	April 17-19
Classes End	May 13
Examination Period	May 14-20
Residence Halls Close	May 20
End of Semester	May 20
Commencement	May 21

Summer Sessions 1992

Registration	To Be Announced
Residence Hall Check-in:	
All Students	June 28
Pre-Session (No Friday Classes)	June 1-18 (12 sessions)
Saturday Classes	June 13-August 15 (10 sessions)
Eight-Week Session (No Friday Classes)	June 15-August 6
Six-Week Session (No Friday Classes)	June 29-August 6
Residence Halls Close	August 7
Post-Session (No Friday Classes)	August 10-27 (12 sessions)

***The College reserves the right to modify this calendar.**

About the College

From its founding in 1908, the history of Montclair State College has been one of change, growth and distinction.

Established as a normal school in 1908 in response to the growing demand for professionally trained teachers, the school became Montclair State Teachers College in 1927, dedicated to the education of secondary school teachers through a four year Bachelor of Arts degree program. Part-time, extension and summer courses were added to meet the professional needs of teachers, and in 1932 Montclair was authorized to offer the master's degree. With its strong emphasis on the liberal arts and sciences, Montclair in 1937 became one of the first teachers' colleges accredited by the Middle States Association of Colleges and Schools. Responding to rapid enrollment growth in the late forties and fifties with an expanded curriculum and faculty, the campus became Montclair State College in 1958 and a comprehensive, multi-purpose institution in 1966.

With a Fall 1989 enrollment of about 13,200 students, Montclair is the largest of New Jersey's state colleges. It offers 44 undergraduate majors, 29 graduate majors and numerous interdisciplinary programs, minors and concentrations through five schools: Business Administration, Fine and Performing Arts, Humanities and Social Sciences, Mathematical and Natural Sciences, and Professional Studies. The College is well regarded for the strength of its teacher education program, and its cooperative education program places over 600 students a year. Montclair is unique among New Jersey's state colleges in maintaining Classics and Linguistics departments, and its programs in Music Therapy and Toxicology are also exceptional. The College Honors Program provides a lively and creative environment to support the academic and intellectual interests of outstanding students, and the International Studies Program fosters a sense of global awareness and cultural diversity through new curricular projects, exchanges, conferences, lectures and colloquia. The College's Institute for the Advancement of Philosophy for Children trains teachers from around the world in the application of logical thinking to the elementary school classroom, while Project THISTLE (Thinking Skills in Teaching and Learning) improves the basic skills of urban college-bound students by working with teachers in the Newark public schools. The College's Health Careers Program, the EOF (Educational Opportunity Fund), Legal Studies/Skill Development Program and the Weekend College for Spanish-speaking or bilingual students are all examples of the creative responses undertaken to combine access with academic excellence. Montclair is proud of the fact that its black student profile increased during a period of statewide decline, and is currently reviewing all of its recruitment and retention efforts to identify additional methods to improve the institutional response to this pressing need.

Montclair's leadership in the arts is reflected in its designation by the state as a Center of Excellence in the Fine and Performing Arts, and throughout the year the College presents major music, dance, theatrical, literary and artistic activities to audiences from the metropolitan area. Public workshops, lectures, demonstrations and conferences are also offered by a number of departments and programs and regularly feature distinguished scholars and experts from a variety of disciplines. Over 1,300 academically gifted students from grades 4 through 9 take part in advanced instructional programs offered weekends on campus, while close to 500 musically talented youngsters receive instruction through the Music Preparatory division each year. The New Jersey School of the Arts provides additional opportunities for about 300 gifted high school students to study art, music, dance, theatre and creative writing with nationally recognized faculty and visiting artists on campus throughout the year. In the summer of 1986, the College received a $5.7 million Challenge Grant award to support a wide range of arts-related programs designed to improve career entry opportunities for students in the arts, while also enriching the College's general education program.

The College's Psychoeducational Center provides special services to children with learning, reading, speech and other disabilities, while the Center for Continuing Education offers a variety of adult education programs including ESL (English as a Second Language) and career and professional training for industrial and sales workers, hospital and nursing home workers and the like.

In all of its activities, Montclair State College remains committed to its primary mission of providing high quality undergraduate and graduate programs to the citizens of New Jersey and beyond. The Institute for Critical Thinking at Montclair State College, designed to support and enrich faculty development efforts toward critical thinking as an educational goal, was established in 1987 with funding under the Governor's Challenge for Excellence Program. The primary purpose of the Institute is to serve as a catalyst in the development of educational excellence across the curriculum at the College. A collaborative, multi-disciplinary approach to faculty and curriculum development is in process, with attention to the study of both the theoretical aspects of critical thinking across the disciplines and their implications for teaching and learning at the college level. Leadership roles have also been assumed in helping other colleges and schools to incorporate critical thinking into their curricula.

As part of its efforts, the Institute for Critical Thinking produces a monthly newsletter, *Inquiry: Critical Thinking Across the Disciplines*, as well as other publications. Conferences, lecture series, seminars, and other events sponsored by the Institute are open to all members of the academic community, including students and parents.

Degree Programs and Concentrations*

ADMINISTRATION AND SUPERVISION ..... M.A.
- Educator Trainer

ALLIED HEALTH SERVICES ..... B.S.

ANTHROPOLOGY ..... B.A.

APPLIED SOCIOLOGY ..... M.A.

BIOCHEMISTRY ..... B.S.

BIOLOGY ..... B.S., M.A.

BUSINESS ADMINISTRATION ..... B.S., M.B.A.
- Accounting
- Finance
- Management
- Marketing

BUSINESS ADMINISTRATION ..... B.S.
- General Business
- Office Systems Administration
- Quantitative Methods
- Retail Merchandising and Management

BUSINESS ADMINISTRATION ..... M.B.A.
- Business Economics
- Quantitative Analysis

BUSINESS EDUCATION ..... B.S., M.A.
- Distributive Education

CHEMISTRY ..... B.S., M.A.

CLASSICS ..... B.A.

COMMUNICATION SCIENCES AND DISORDERS ..... B.A.

COMMUNICATION SCIENCES AND DISORDERS ..... M.A.
- Audiology
- Early Childhood Special Education
- Learning Disabilities (Teacher-Consultant)
- Speech-Language Pathology (Correctionist)

COMPUTER SCIENCE ..... B.S.

COMPUTER SCIENCE ..... M.A.
- Applied Mathematics
- Applied Statistics

COUNSELING, HUMAN SERVICES AND GUIDANCE ..... M.A.
- Human Services

DANCE ..... B.F.A.

ECONOMICS ..... B.A.

EDUCATION ..... M.Ed.
- Critical Thinking

EDUCATIONAL PSYCHOLOGY ..... M.A.

ENGLISH ..... B.A.
- Creative Writing

ENGLISH AND COMPARATIVE LITERATURE ..... M.A.

ENVIRONMENTAL STUDIES ..... M.A.
- Environmental Education
- Environmental Health
- Environmental Management
- Environmental Science

FINE ARTS ..... B.A., M.A.
- Art History
- Fine Arts Education
- Studio
- Visual Arts

FINE ARTS ..... B.F.A.
- Studio

FRENCH ..... B.A.
- Translation

FRENCH ..... M.A.

GENERAL HUMANITIES ..... B.A.

GEOGRAPHY ..... B.A.
- Urban Studies

GEOSCIENCE ..... B.S., M.A.

GERMAN ..... B.A.

HEALTH EDUCATION ..... B.S.
- Community Health Services

HEALTH EDUCATION ..... M.A.

HISTORY ..... B.A.

HOME ECONOMICS ..... B.A.
- Consumer Affairs
- Family and Child Studies
- Fashion Studies
- Home Economics Education (Comprehensive)

HOME ECONOMICS ..... B.S.
- Foods and Nutrition
- Food Service Management

HOME ECONOMICS ..... M.A.
- Family Life Education
- Family Relations/Child Development
- Home Economics Education (Comprehensive)
- Home Management/Consumer Economics

INDUSTRIAL TECHNOLOGY AND EDUCATION ..... B.S.
- Industrial Technology

INDUSTRIAL TECHNOLOGY AND EDUCATION ..... M.A.

ITALIAN ..... B.A.

LATIN ..... B.A.

LINGUISTICS ..... B.A.

MATHEMATICS ..... B.S.
Applied Mathematics

MATHEMATICS ..... M.A.
Computer Science
Mathematics Education
Pure and Applied Mathematics
Statistics

MUSIC ..... B.A.
Music Education (Comprehensive)

MUSIC ..... B.Mus.
Performance
Theory Composition

MUSIC ..... M.A.
Music Education (Comprehensive)
Performance
Theory Composition

MUSIC THERAPY ..... B.A.

PHILOSOPHY ..... B.A.

PHYSICAL EDUCATION ..... B.S.
Adult Fitness Program

PHYSICAL EDUCATION ..... M.A.
Coaching and Sports Administration
Exercise Sciences
Teaching and Administration of Physical Education

PHYSICS ..... B.S.

POLITICAL SCIENCE ..... B.A.

PRACTICAL ANTHROPOLOGY (Five-year combined undergraduate and graduate program) ..... M.A.

PSYCHOLOGY ..... B.A.
Community Psychology

PSYCHOLOGY ..... M.A.
Clinical Psychology for Bilingual (Spanish Speaking) Psychologists
Industrial and Organizational Psychology

READING ..... M.A.

RECREATION PROFESSIONS ..... B.S.
Commercial Recreation and Tourism
Therapeutic Recreation

RELIGIOUS STUDIES ..... B.A.

SOCIAL SCIENCES (ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, HISTORY, SOCIOLOGY, URBAN STUDIES) ..... M.A.

SOCIOLOGY ..... B.A.

SPANISH ..... B.A.
Translation

SPANISH ..... M.A.

SPEECH AND THEATRE ..... B.A.
Broadcasting
Communication Studies
Speech/Theatre Education (Speech Arts/Dramatics)
Theatre

SPEECH AND THEATRE ..... M.A.
Communication Arts
Theatre

TEACHING ..... M.A.T.
Teaching Middle School Philosophy

THEATRE ..... B.F.A.
Acting
Design/Production

TOXICOLOGY ..... B.S.

**Additional minors and certification programs are offered. Check index for reference to appropriate sections of catalog.*

ACCREDITATIONS AND MEMBERSHIPS

The College is accredited by the Middle States Association of Colleges and Schools. In addition, the National Council for the Accreditation of Teacher Education has granted accreditation for the preparation of elementary and secondary school teachers as well as school service personnel. These programs are also approved by the New Jersey Department of Education using the standards of the National Association of State Directors of Teacher Education and Certification.

Other academic accreditations include the American Home Economics Association (Department of Home Economics, School of Professional Studies), American Speech-Language-Hearing Association (Department of Communication Sciences and Disorders, School of Humanities and Social Sciences), National Association of Schools of Art and Design (Department of Fine Arts, School of Fine and Performing Arts), National Association of Schools of Dance (Department of Speech and Theatre, School of Fine and Performing Arts), National Association of Schools of Music (Department of Music, School of Fine and Performing Arts), National Association of Schools of Theatre (Department of Speech and Theatre, School of Fine and Performing Arts), and National Recreation and Park Association (Department of Physical Education, Recreation and Leisure Studies, School of Professional Studies). In addition, the undergraduate minor in Paralegal Studies offered by the Department of Legal Studies, School of Humanities and Social Sciences, has been approved by the American Bar Association; programs offered by the Department of Chemistry, School of Mathematical and Natural Sciences, have been approved by the American Chemical Society; and the undergraduate program in Music Therapy offered by the Department of Music, School of Fine and Performing Arts, has been approved by the National Association for Music Therapy.

The College is a member of the American Assembly of Collegiate Schools of Business, American Association of Colleges for Teacher Education, American Association of State Colleges and Universities, American Council on Education, Association of American Colleges, Association for Gerontology in Higher Education, Council of Graduate Schools in the United States, New Jersey Association of Colleges and Universities, New Jersey Association of Colleges for Teacher Education, North American Association of Summer Sessions, and Northeastern Association of Graduate Schools. Women graduates of the College are accepted for membership in the American Association of University Women.

Schools of the College



School of Business Administration

Dean: Suresh A. Desai, Ph.D.

The undergraduate programs of the School of Business Administration develop the ability to assume the positions of decision-making responsibility within business and non-profit institutions. Building upon the liberal arts foundation provided by the General Education Requirements, the curriculum provides a blend of analytical capacities and institutional knowledge which enables students to enter and continuously adapt to our increasingly complex world. The School provides concentrations in Accounting, Finance, General Business, Management, Marketing, Office Systems Administration, Quantitative Methods, Retail Merchandising and Management, and Distributive Education. It also offers a major and minor in Economics. Internships and co-operative education experiences are available; and, professional teacher training is offered in Business Education.

Departments within the School are:
ACCOUNTING, LAW AND TAXATION
BUSINESS EDUCATION AND OFFICE SYSTEMS ADMINISTRATION
ECONOMICS
FINANCE AND QUANTITATIVE METHODS
MANAGEMENT
MARKETING

School of Fine and Performing Arts

Dean: Geoffrey W. Newman, Ph.D.

Designated as a Center of Excellence in the Fine and Performing Arts, Montclair State College continues its commitment to quality programs in art and education. Its School of Fine and Performing Arts offers graduate and undergraduate programs in fine arts, music, speech, theatre, dance, broadcasting and communication. In 1986, the School of Fine and Performing Arts was awarded the $5.7 million Governor's Challenge for Excellence in the Arts Grant, the largest known arts program grant anywhere. The grant is designed to bridge the gap between the academic and the professional world and expands upon our already exciting arts curriculum and cultural program offerings. The School also includes a Music Preparatory Division, which offers instruction to children from age 3 to high school, and the Office of Cultural Programming which presents major dance, music, theatrical, literary and visual arts events. The School also provides a variety of exhibits in the College Art Gallery.

The School of Fine and Performing Arts provides professional training and education for students seeking careers in the arts, education, public service and management. It presents cultural events and offers courses and experiences in the arts for the enrichment of campus and community life. The resources of the School are taken to the community in the form of chamber music, dance concerts, lectures and demonstrations. The School seeks to stimulate public interest in the arts and to encourage research, creative work and experimentation in the arts.

Departments within the School are:
FINE ARTS
MUSIC
SPEECH AND THEATRE (BROADCASTING, SPEECH COMMUNICATION, DANCE AND THEATRE, effective July 1, 1990)

School of Humanities and Social Sciences

Dean: Philip S. Cohen, Ph.D

Although the departments that comprise the School of Humanities and Social Sciences have traditionally been concerned with the activities and issues central to the liberal arts and general education, they also offer several programs with specific career objectives.

Each department, with the exception of Legal Studies, offers at least one major program leading to the Bachelor of Arts degree. The Department of Legal Studies offers a minor in Paralegal Studies and undergraduate concentrations; it also offers a minor in Pre-Law Studies. Teacher certification is available in appropriate fields.

The School continuously examines its curriculum to strengthen current programs and to reflect new directions. The increasingly important role played by computers in the humanities and social sciences is one example of the vitality and relevance of the curriculum. It also provides numerous opportunities for internship training in business, clinical, governmental, and educational settings, including the Communication Disorders Center and the Psychoeducational Center located on campus. Interdisciplinary and applied minor programs (e.g. legal studies), whereby students may obtain a broad liberal education along with specific career skills are encouraged.

In its brief history, the School of Humanities and Social Sciences has established a unique identity based upon diversity within a unified, organic whole. Its broad spectrum of departments and programs embraces a variety of methods, content and organization, each bearing a special relationship to the others.

Departments within the School are:

ANTHROPOLOGY
CLASSICS
COMMUNICATION SCIENCES AND DISORDERS
ENGLISH
ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES
FRENCH
GERMAN AND RUSSIAN
HISTORY
LEGAL STUDIES
LINGUISTICS
PHILOSOPHY AND RELIGION
POLITICAL SCIENCE
PSYCHOLOGY
SOCIOLOGY
SPANISH AND ITALIAN

School of Mathematical and Natural Sciences

Dean: Vaughn Vandegrift, Ph.D.

The programs within the School of Mathematical and Natural Sciences (SMNS) provide a sound foundation for post-baccalaureate studies in professional or graduate school and for careers in industry and government. The School is strongly committed to enhancing the understanding of the mathematical and natural sciences within the College community through guest lectures, symposia, and the general education and collateral courses.

The undergraduate research program provides students with a unique opportunity to learn how science is accomplished. Under the direction of knowledgeable and dedicated faculty mentors, students have access to unusually extensive facilities and state-of-the-art equipment including scanning and transmission electron microscopes, a cell culture laboratory, scintillation counters, a Fourier transform nuclear magnetic resonance spectrometer, a gas chromatograph/mass spectrometer and an X-ray diffraction spectrometer. The level of equipment holdings in all SMNS departments reflects the importance of instrumentation to modern scientific education.

Since scientific computing has unique requirements, the School supports its own local area network (LAN). The School LAN contains several state-of-the-art Sun workstations and a Sun RISC architecture server, DEC microVAXen and workstation, graphics workstations, IBM PCs, and Apple Macintoshes. Through networking, students in all SMNS departments have access to DEC VAXen, IBM mainframes, and national and international networks through the John von Neumann National Center.

Departments within the School are:

BIOLOGY
CHEMISTRY
MATHEMATICS AND COMPUTER SCIENCE
PHYSICS AND GEOSCIENCE

School of Professional Studies

Dean: Nicholas M. Michelli, Ed.D.

The School of Professional Studies offers a wide variety of programs leading to professional careers in private industry, government agencies, non-profit organizations, and public and private schools. All programs in the School are firmly grounded in the liberal arts, and include the opportunity for field based internships. Graduate degree programs are offered by all departments.

The School is responsible for the coordination of the college-wide teacher education program. A number of research and service centered projects are operated by the School, including the Life Skills Center, the Center for the Study of Human Sexuality, the Reading and Study Skills Center and Project THISTLE. In addition, the New Jersey School of Conservation, one of the largest environmental and outdoor education centers in the world, is part of the School of Professional Studies.

Departments within the School are:

COUNSELING, HUMAN DEVELOPMENT AND EDUCATIONAL LEADERSHIP
CURRICULUM AND TEACHING
EDUCATIONAL FOUNDATIONS
HEALTH PROFESSIONS
HOME ECONOMICS
PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES
READING AND EDUCATIONAL MEDIA
TECHNOLOGY

Admissions

Address requests for application forms and inquiries concerning admission to: Director of Admissions, Montclair State College, Upper Montclair, New Jersey 07043. Completed applications should be returned to this address accompanied by a $25.00 non-refundable fee. Decisions are announced on a rolling basis beginning in October, until all spaces are filled.

All admissions are made without regard to an applicant's financial circumstances, sex, race, age, religion, national origin, or physical handicap.

Admission Requirements

Full-Time Freshmen

1. An application should be completed and returned as early in the senior year as possible, but no later than March 1.
2. The Scholastic Aptitude Test (SAT) should be taken preferably in November or December, but not later than January of the senior year. The student should request that the College Board forward the results to Montclair State College (College Board Code number 2520).
3. The student is required to have a certificate of graduation from an approved secondary school. A High School Equivalency Certificate is acceptable. Sixteen subject units must be completed according to the following breakdown:

English	4
Social Studies	2
Mathematics*	3
Science (laboratory)	2
Foreign Language	2
Electives (in English, social studies, science, math or foreign language	3
	Total 16

*Admission to computer science requires 4 years of mathematics including trigonometry. Admission to business administration requires Algebra II.

4. Students who wish to enter a specialized field of study are assumed to have prepared for it during the high school years. Achievement scores, though not required, are useful in demonstrating area strength and may be submitted with application materials. Admission to the departments of Fine Arts, Music, or Speech and Theatre is gained through departmental tests, auditions, or interviews. Admission to Montclair State College does not guarantee acceptance into a particular department.
5. Application and admission dates for full-time freshmen:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	March 1	March 15
Spring semester	November 1	November 10

6. Accepted full-time students are required to pay a non-refundable $50 fee by May 1 to hold their places in the class.

Transfer Students

1. Approximately one-third of new students entering Montclair each year have attended another college
   To be eligible for consideration for transfer admission, a student is required to have completed a minimum of 15 credits with at least a 2.00 (C) average at another accredited college. In recent years, however, the minimum g.p.a. has been about 2.5. Specific academic programs may have additional requirements. Transcripts of high school and all previous college records are to be forwarded to Montclair State College.
2. Transfer students may attend on either a full- or part-time basis and must choose a major. A departmental interview may be required.
3. Application and admission dates for full-time transfer students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	May 1	May 15
Spring semester	November 1	November 10

4. Transfer students desiring part-time admission follow the application dates listed below for part-time students.
5. International students should follow the application dates listed below for International Students.

Part-Time Students

1. Part-time undergraduate study at Montclair State College offers degree program opportunities to students whose responsibilities limit the time they are able to devote to academic pursuit. A student may also apply to attend classes with no specific degree objective. A maximum of 9 credits per semester may be taken. Although part-time students may register for courses in the day, evening, or weekends, students whose personal schedules will only permit them to take courses in the evening should be aware that only the following majors are currently available after 4:30 p.m. Monday through Thursday:
   Allied Health*
   Anthropology
   Business Administration
   Computer Science
   Economics
   English
   Environmental, Urban and Geographic Studies
   History
   Home Economics
   Industrial Technology and Education
   Mathematics
   Political Science
   Psychology
   Sociology
   *Limited to transfer students from medical related A.A. and A.A.S. degree programs only.
2. Application and admission dates for part-time students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	July 15	July 30
Spring semester	November 15	December 1

Educational Opportunity Fund (E.O.F.) Students

1. The Educational Opportunity Fund (E.O.F.) Program at Montclair State College extends the opportunity to attend college to the individual who has potential to succeed, but lacks the educational and financial resources to gain admission through ordinary procedures.
2. Applicants to the E.O.F. Program must be seeking full-time admission, residents of New Jersey for at least one year, from an educationally and economically disadvantaged background, and ineligible for admission by ordinary standards. Counseling, tutorial services and a six-week pre-college summer program are mandatory components of the Program. E.O.F. assists students in adjusting to college life and competing at the college level.
3. E.O.F. Program applicants file an application for admission to the College along with the Financial Aid Questionnaire according to the full-time freshman application date (March 1) for fall semester admission. In addition, complete the New Jersey Financial Aid Form (N.J.F.A.F.) and forward a copy to the Financial Aid Office, Montclair State College.

   Family Gross Annual Income Limitations for Dependent Student Eligibility:

   Households of 2 persons..... $15,130

   Add $2,140 for each additional member of household.
4. Independent students may also qualify and should contact the Financial Aid Office regarding income limitations for eligibility.
5. Application and admission dates for E.O.F. students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	March 1	March 15

6. Further information may be obtained through the Educational Opportunity Fund Office, College Hall, Room 304-C, telephone (201-893-4384).

International Students

Students from foreign countries file an application for admission through the Office of Admissions.

Students whose native language is not English are required to submit scores from the Test of English as a Foreign Language. Since the I-20 form can be granted only to accepted full-time students, candidates from foreign countries should be aware that they must apply for full-time rather than part-time admission.

Students transferring from another United States College or University will be required to submit the "Foreign Student Advisor's Report."

Transcript Evaluation

Send transcripts of all school records for course-by-course evaluation to:
World Education Services, Inc.
P.O. Box 745
Old Chelsea Station
New York, NY 10113-0745

Request WES to send its evaluation to:
Office of Admissions
Montclair State College
Upper Montclair, NJ 07043

Application and admission dates for full-time International Students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	April 1	April 15
Spring semester	November 1	November 10

Second Baccalaureate Students

1. Students who have been awarded a baccalaureate degree may obtain a second bachelor's degree in most non-teaching majors at Montclair State. Business administration is **not** available. A minimum of 32 semester hours must be completed at Montclair State College after admission to a second baccalaureate program. The academic departments determine the exact number of semester hours of major and collateral courses to be completed for the second bachelor's degree. Credits earned through this program are considered undergraduate and are assessed at undergraduate tuition and fee rates. These credits are not applicable toward a higher degree at a later date.
2. Students are eligible to apply for admission to a second baccalaureate degree program if they have graduated from an accredited four-year college with a minimum cumulative grade point average of 2.50 based upon a possible 4.00 system.
3. Applications and admission dates for second baccalaureate students:

Admission for:	Completed application on file by:	Supporting documents due by:
Full-time Students		
Fall semester	May 1	May 15
Spring semester	November 1	November 10
Part-time Students		
Fall semester	July 15	July 30
Spring semester	November 15	December1

Weekend College Students

Montclair State offers students the opportunity to pursue their education during the weekend. Many Weekend College students are Spanish-speaking and bilingual, or English-speaking seeking valuable cross-cultural contact.

Students attend classes on Friday evening or during the day on Saturday and Sunday.Those who speak English as a second language may enroll in intensive courses to gain college-level proficiency in English. These courses are offered through the Linguistics Department. Other classes are conducted in both English and Spanish. A student who has earned less than 36 credits may apply as an undeclared major. A Spanish major is also available.

Application and admission dates for Weekend College students:

Admission for:	Completed application on file by:	Supporting documents due by:
Fall semester	July 1	July 30
Spring semester	November 1	November 10

Second Careers Students

1. Adults over twenty-five years of age who wish to begin or continue their college education part-time or full-time may receive assistance and support through the Second Careers program.
2. Individuals who have never attended college before take the College Level Examination Program (CLEP) general examinations for possible advanced standing credits and also enroll in a two-credit Reentry Seminar.
3. Individuals reentering college through the Second Careers program may not have earned previously more than 30 transferable credits nor may they have been matriculated students at another college during the two years immediately prior to Montclair State College.

Admission for:	Completed application on file by:	Supporting documents due by:
Full-time Students		
Fall semester	May 1	May 15
Spring semester	November 1	November 10
Part-time Students		
Fall semester	July 15	July 30
Spring semester	November 15	December1

5. Further information may be obtained through the Second Careers Office, College Hall, Room 306, telephone (201-893-4431).

Basic Skills

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date and registration will not be completed for entering freshman students until the Basic Skills test scores are in. Developmental courses in reading, writing, and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT and credits will be added to the number of semester hours required to graduate. Full-time students MUST COMPLETE ALL REQUIRED DEVELOPMENTAL COURSES DURING THEIR FIRST YEAR of enrollment; part-time students within the first two years of enrollment. Students not completing this requirement may be dismissed from the college.

The MSC basic skills requirement in speech must be fulfilled within a student's first 58 semester hour credits by satisfactory completion of the speech communication requirement or by successful Speech Placement Waiver evaluation. Students may consult the department of Speech and Theatre for a fuller description of the program.

Note that Basic Reading Skills, Basic Math Skills I, Basic Math Skills II, and Basic Speech Improvement do not carry graduation credits. However, these courses do provide credits toward a student's full-time status and do count toward the student's grade point average.

Provisions for Non-Native Speakers of English

Non-native speakers of English will be given a Placement test for English as a Second Language (ESL). Those who achieve a score which indicates a need for ESL instruction will enroll in ESL courses instead of Basic Composition or Freshman Composition and will be exempted from their Basic or Freshman Composition requirement until the necessary ESL courses are completed. Students enrolled in ESL courses should not take the English portions of the New Jersey Basic Skills Exam until their last semester of ESL. ESL Placement Tests are usually given in June, August, and January. **The ESL Placement Exam and ESL courses are given by the Linguistics Department.**





Tuition and Fees

In order to qualify for the in-state tuition rate, the student, parent(s), or guardian(s) upon whom the student is financially dependent must have lived within the State of New Jersey for a continuous period of one year immediately prior to enrollment. (N.J.S.A. 18:62) All foreign exchange students are considered as non-residents for tuition purposes, regardless of where they reside while attending MSC. Any questions concerning residency status should be directed to the Business Office.

Tuition and fees are subject to change without prior notice.

Tuition

Undergraduate:	
Resident	$53.00 per semester hour
Non-resident	$80.00 per semester hour

Fees

General Service Fee	$1.75 per semester hour
Student Building Fee	$8.50 per semester hour
Student Government Association Fee	$3.00 per semester hour (Maximum: $36.00 per registration)
Athletic Fee	$2.25 per semester hour

Special Fees

Late Registration Fee: for students whose initial registration for the semester is during the late registration	$50.00
Late Payment and/or Dishonored Check Fee	
Minimum Fee	$15.00
Maximum Fee	$60.00
Music Fees: Part-time and graduate students registering for applied music courses and private study in composition pay regular tuition and fees, plus $200 per applied music course.	
Parking Fee	$20.00 per year
I.D. Card Replacement Fee (lost card)	$5.00
Library Fines: overdue books, periodicals, etc.	$.05 per day
Student Teaching Fee	$100.00
Transcript Fee	$2.00 per copy

Refund of Tuition and Fees

Tuition and fees are refundable in full if classes are discontinued by the College.

	Per Cent Refunded
Withdrawal before course begins	100%
Withdrawal during first third of course	50%
Withdrawal after the first third of course	none

Refunds for short term courses will be calculated in the same manner at the time of withdrawal.

Students are not permitted to withdraw from courses after the midpoint of the semester. In computing refunds, the date of withdrawal is the date on which the Office of the Registrar receives a written notice from the student or from the date of the postmark for those received through the U.S. mail.

Summary of Expenses

Estimated tuition, fees and expenses* for students attending Montclair State College are as follows for the nine month September-May academic year for a student taking 32 credits:

	New Jersey Commuting Student	New Jersey Student Residing Away From Home	Out-of-State Student Residing Away From Home
Tuition	$1696.00	$1696.00	$2560.00
General Service Fee	56.00	56.00	56.00
Athletic Fee	72.00	72.00	72.00
Student Government Association	72.00	72.00	72.00
Student Union Building Fee	272.00	272.00	272.00
Student Health Insurance (Optional)	90.00	90.00	90.00
Subtotal (payable to College)	2258.00	2258.00	3122.00
Textbooks and Supplies (Estimated)	500.00	500.00	500.00
College Housing (Estimated)	—	2592.00	2592.00
Meals (Estimated) Maximum Meal Plan	—	1312.00	1312.00
Personal Expenses (Estimated)	950.00	950.00	950.00
Total	$3708.00	$7612.00	$8476.00

All Tuition and Fees are Subject to Change

*Tuition, fees and expenses based upon 1989-90 figures.

Financial Aid

The Office of Student Financial Aid provides financial assistance to eligible students through the following:

Federally Funded Programs

1. College Work-Study
2. Carl D. Perkins Loans
3. Pell Grants
4. Supplemental Educational Opportunity Grants

State of New Jersey Programs

1. Distinguished Scholars
2. Educational Opportunity Fund
3. Garden State Scholarship
4. Stafford (GSL) Loans
5. PLUS Loan
6. Public Tuition Benefits
7. Tuition Aid Grants
8. Veterans Tuition Credit Program
9. Viet Nam Veterans Tuition Aid Program

Information regarding the N.J. Higher Education Assistance Authority Guaranteed Student Loan (GSL), PLUS loan and other financial aid programs may be obtained from the Financial Aid Office. Programs of financial assistance are revised from year-to-year and hence both eligibility criteria and the availability of funds may change. Inquiries for further information and requests for applications should be addressed to:

The Office of Student Financial Aid
C-321
College Hall
Montclair State College
Upper Montclair, N.J. 07043

Scholarships and Awards

Many special awards, funds, and scholarships have been established by the benefactors of the College who share its interest in quality education. A complete list of these opportunities may be found at the back of this catalog in the Appendix of Scholarships and Awards.

Intra-Collegiate Academic Programs

The Office of Intra-Collegiate Academic Programs is the administrative unit which oversees innovative programs designed to meet changing educational needs of both traditional and non-traditional students. It also administers the Academic Advising Center, the Office of Basic Skills and the College Tutorial Center.

Academic Advising Center

Building E
Telephone: 201-893-4106, 4146, 4223, 4237

All matriculated students, full- and part-time, are encouraged to seek regular academic advising during their college years. Advisors assigned to the Academic Advising Center are available both day and evening for students who have not yet declared a major area of study, and also for students who intend to change majors. Advisors in the Academic Advising Center are also responsible for evaluating transfer credits.

Full- and part-time matriculated students who have declared majors are assigned to and counseled by faculty advisors in their respective departments. Additional information on faculty advising may be obtained by calling the Department office.

Undeclared majors are expected to declare a major by the time they have earned 58 credits. Students are encouraged to come to the Academic Advising Center for assistance in making this decision.

Basic Skills Program

Room 207, Richardson Hall
Telephone: 201-893-4476

The Office of Basic Skills coordinates and administers the New Jersey College Basic Skills Placement Test (NJCBSPT) to all entering freshmen and readmitted or transfer students with fewer than 26 transferable credit hours. It also monitors the completion of all required developmental courses and administers required post-testing in these courses. Full-time students must complete all required developmental courses during their first year of enrollment; part-time students within the first two years of enrollment.

College Tutorial Center (CTC)

Room 015A—Building E
Telephone: 201-893-4364, 5425

The College Tutorial Center (CTC) is a college wide facility designed to assist students in a variety of basic skills, liberal arts and academic major prerequisite courses. Graduate and undergraduate student tutors provide a combination of individual and small group tutorials. Computer-assisted instruction is also available in a variety of academic disciplines and academic skills development topics. Drop-in tutoring is available for Math courses.

Students are encouraged to apply for tutorial assistance prior to mid-term to assure maximum academic support.

Workshops are provided in diverse topics of student interest such as Time Management, Test Taking Strategies, Effective Study Skills and Math Word Problems.

Cooperative Education

Room 104, Student Center Annex
Telephone: 201-893-4426

Cooperative Education is an educational program that involves students in productive, paid work experiences as an element of the academic curriculum. Co-op integrates classroom studies with professional experience through preparatory activities, academic faculty involvement and worksite supervision.

Participants must have a minimum of 45 credits and a 2.00 grade point average (departmental requirements may be higher). Credits may be applied to the student's major or free electives, depending upon the student's academic major.

Students are placed with participating employers and must meet that employer's job criteria.

Interested students should contact the Cooperative Education Office early in their academic careers to plan for their Co-op semesters.

Educational Opportunity Fund (EOF)

Room 304, College Hall
Telephone: 201-893-4385

The EOF provides the educationally and economically disadvantaged person with the opportunity to attend colleges or professional schools in New Jersey. The goal is to make college possible for the student who has the potential to succeed but lacks the credentials required to be admitted through the normal process. The EOF program recruits, admits, and supports the motivated student through graduation from college.

A wide range of majors are available to EOF students. They are also offered special services that help them in their college careers. These include assistance in applying for financial aid; a required six-week residential summer pre-college experience that aids in the transition and adjustment to college life; tutorial assistance; and continual academic, career and personal counseling.

For detailed information, call the director of EOF.

Part-Time Provisionally Matriculated Students

Room 306, College Hall
Telephone: 201-893-4431, 4432, 4433

Students who do not meet admissions criteria for full-time or part-time matriculated status may be accepted by the College on a provisional basis. Under this category, students are limited to a maximum of 9 semester hours each semester. Upon completion of 15-18 semester hours of course work and a grade point average of 2.00 ("C") or better, students are granted matriculation status. At this point students may apply to the Admissions office for full-time status.

Provisionally matriculated students who do not meet the minimum retention requirement after 15 semester hours of course work are dismissed from the College.

During the prematriculation period, students are advised individually and in groups by counselors in the ICAP Office. Additional services include Orientation and Advisement for new students and on-going advisement until students earn matriculant status. At that point students who have declared majors will be advised by departmental faculty. Undeclared students will be advised by the Office of Academic Advising until they declare a major. Provisionally matriculated students generally attend evening and weekend classes; day classes are open to them on a space-available basis until their transfer to full-time status.

Second Careers Program

Room 306, College Hall
Telephone: 201-893-4431

This Program is designed for adults, aged 25 and older, who want to begin or resume study for a bachelor's degree either part-time or full-time. It recognizes and addresses the unique problems of adult learners by providing pre-admission and post-admission counseling, a re-entry seminar that focuses on adults entering or returning to college, flexible class scheduling and an opportunity to earn advanced credits through the College Level Examination Program (CLEP) general examinations.

The Program offers a Study Skills and CLEP Orientation Workshop series on Saturdays beginning in early January and again in early September each year. Another series of mini-seminars on "Is College for Me?" is also scheduled each semester for prospective students. Second Careers Program alumni serve as panelists discussing issues relevant to entering or returning adult students.

For further information about the Second Careers program, call the director.

Special Tutorial Program (STP)

Room 8, Building E
Telephone: 201-893-5425

STP is designed to provide educational opportunity for a select group of educationally underprepared students. The mission of STP is to help make college a reality for this group of highly motivated students who lack the credentials to meet the criteria for college entrance. STP recruits its population through the EOF program applicant pool.

STP students are provided with special services such as counseling and tutorial assistance. They are also encouraged to enroll in a course entitled College Learning and Thinking Skills as an introduction and orientation to college academic and social life.

For additional information call the director of STP.

Upward Bound Project

Room 401, Chapin Hall
Telephone: 201-893-4187

This program was established for high school students from low-income families who have inadequate secondary school preparation. It is a pre-college program that helps students to acquire the skills and motivation necessary for higher education.

Sponsored by Montclair State College, the program is fully funded by the United State Office of Education. The summer phase of the Project is held at Montclair State College and the academic year component at a site in Jersey City, N.J. About one hundred students, in the ninth, tenth, and eleventh grades, are recruited from Jersey City and Montclair for the Project.

Weekend College

Room 306, College Hall
Telephone: 201-893-4433

Montclair State College offers the opportunity to attend college during the weekends as a full-time or as a part-time student working toward a bachelor's degree. Classes are offered through the weekend in both the fall and the spring semesters beginning on Friday evenings and continuing on Saturdays and Sundays. A student may take one course or several, on one day, or on all three days. As a student progresses toward the degree, he or she may have to take some of the advanced courses during the week.

Each student has an academic advisor who helps in the proper selection of courses and scheduling that meets the student's needs and interests.

The Weekend College is a valuable cross-cultural experience for the English speaking person seeking to work among the Spanish speaking. Many of the students in the Weekend College are Spanish speaking because a major part of the Weekend College is geared toward providing an education that meets the needs of the Spanish-speaking or bilingual person. It offers an intensive sequence of English as a Second Language courses (ESL I-IV) and two more advanced ESL courses.

To obtain detailed information, contact the Weekend College office.

Resources and Facilities

Academic Advisement

Students are encouraged to seek academic advisement often during their college career. College academic advisors and faculty advisors can help students to plan a program and provide assistance in referring students to other resources, if necessary. Contact the Academic Advising Center, telephone (201-893-4237, 4223, or 4106).

Alumni Association

Graduates of Montclair State College automatically become members of the Alumni Association. Each year the Association Executive Board and the alumni director plan a schedule of activities including class reunions, fall homecoming, Alumni Weekend, special conferences and senior class activities. The Association also sponsors scholarships and faculty grants and conducts fundraising activities which enable alumni to support their favorite College projects. The Alumni Office is located in the Alumni House, 34 Normal Avenue, Upper Montclair, telephone (201-893-4141).

Bookstore

The College Store is located on the lower level of the Student Center. Normal hours of operation are Monday through Thursday, 8:30 A.M.-8:00 P.M. and Fridays, 8:30 A.M.-4:30 P.M. Extended hours are available at the beginning of each semester. Telephone (201-893-4310).

The College Store carries required textbooks and supplies as well as a wide variety of other merchandise. In many cases, textbooks are available for purchase several weeks prior to the beginning of the semester. It is recommended that students bring their course schedules to the College Store to aid in the selection of books, which should be purchased early. During the fall and spring semesters, undamaged books may be returned within ten calendar days of the first day of class provided that students produce sales receipts.

Campus Employment

College Work Study Program (CWSP) makes it possible for a student to earn money in a federally supported work-study program in the community or on campus. Eligibility is based on how much need is shown on the New Jersey Financial Aid Form. Earnings can only be used for educational expenses. To apply, contact the college's Financial Aid Office for the correct form.

Student Assistants Work Program (SA) involves various jobs on campus. To apply, contact Career Services or the Financial Aid office.

Information on *all* these aid programs is available through the Financial Aid office, 321 College Hall, telephone (201-893-4461).

Career Services

Career Services assists students with all phases of their career development, from choosing a major and finding a part-time job to planning long-range career goals and obtaining full-time work after graduation. In instructional seminars and through individual counseling, students learn how to set career goals, write effective resumes, and conduct successful interviews and job searches. The office has a library where information on careers, employment trends, and employers can be found. Other services which are offered include computerized part-time and full-time job matching systems, vocational testing, videotaped "mock interviewing," and a computerized, interactive career guidance system. Each year the office attracts more than 200 major employers to campus to recruit seniors. In addition, thousands of full-time, part-time and summer jobs are listed annually.

Career Services is located in the Student Center Annex, Room 104. The office's telephone number is (201-893-5194).

Center for Continuing Education

The Center for Continuing Education provides educational programs for industry, community agencies and individual adult learners. Services include training programs for employee career mobility, professional certification and recertification and instruction in English as a Second Language (ESL), and computer literacy. The Center administers the College's Older Adult Tuition-Waiver Program. In addition, testing for college credit is available through the Center.

The Center's main office is located at 860 Valley Road, telephone (201-893-4353).

Computer Services Center

The Computer Center, located in Room 106, College Hall, provides facilities for both the academic and administrative functions of the College.

Students, faculty and administrative personnel are afforded the use of various computing equipment featuring the central facility, New Jersey Educational Computing Network (ECN), a consortium of all New Jersey State Colleges, which provides large IBM mainframe equipment, including an IBM 3090-200 MVS/SP, and a 4381 VM/370SP.

Local hardware includes a DEC VAX 6330, 8650, 6310, 8200, 3500, and several IBM, DEC, and Apple microcomputer labs. A wide-range of software applications are maintained on these systems, allowing the users to pursue their own particular lines of study. Additionally, a campus-wide network is installed utilizing fiber optics to provide convenient access to all resources.

Health Services

The College Health Center is staffed by a doctor and four nurses. They provide pre-participation examinations, tuberculosis screening, first aid, pregnancy tests and referrals to personal physicians or specialists.

State law now requires all full-time students to show proof of medical insurance for accident and sickness benefits. Student health insurance is available at a moderate annual premium, payable at registration. Additional information is available from the Health Center, Blanton Hall (201-893-4361).

Identification Cards

All students enrolled at the College are required to carry a current Montclair State College identification card (ID). The identification card is mandatory for borrowing library materials and for participation in other student activities. Cards may be obtained in the College ID Card Office, which is located in the Student Center, Room 423, (201-893-4147).

Intercollegiate Athletics

Aligned in the division of Student Affairs, Montclair State College offers a diversified varsity athletic program of 20 sports for men and women. Student-athletes enjoy competition year-round within NCAA Division III, at the local, regional, and national level.

The women's varsity program includes basketball, cross country, field hockey, softball, swimming/diving, tennis, indoor/outdoor track, and volleyball.

The men's varsity program includes baseball, basketball, cross country, football, golf, lacrosse, soccer, tennis, indoor/outdoor track, wrestling and swimming/diving. Co-ed cheerleading is also offered.

Panzer Gymnasium Complex—Six lane indoor pool with electronic timer; wrestling and weight rooms; training room; fully equipped gymnastic area; locker rooms with sauna; basketball court and auxiliary gym.

Sprague Field—Astro-turf: seating for six thousand; permanent lighting system (all home football, field hockey, soccer, and lacrosse games are scheduled for this facility).

Pittser Field—Baseball diamond, eight tennis courts and a lighted platform tennis court which is adjacent to field.

Softball Fields—2 lighted fields for greater flexibility of scheduling tournaments, games and practices.

Dioguardi Field—Lighted eight-lane synthetic surface track & field and two natural grass fields for practice and intra-mural use.

The Intercollegiate Athletics Office is located in Panzer School Center, telephone (201-893-5234 or 5236).

International Studies Program

The Program in International Studies at Montclair State College is designed to coordinate ongoing international and global endeavors on campus, to plan for new efforts, and to develop proposals to enhance international programs at the College. Additionally, the program strengthens the international dimension of teaching and research, develops curricula and learning resources related to international studies, and encourages awareness of global issues among Montclair faculty and students as well as the wider community.

The Program in International Studies has both foreign and domestic functions. In addition to working with the Foreign Student Advisor to ease on-campus study and living experiences for our international students, the program director advises American students regarding study abroad opportunities.

Study Abroad. At present, most of the College's study abroad programs are offered in conjunction with the NJCIE (New Jersey Council for International Education). The NJCIE offers study abroad programs to eligible students attending most of New Jersey's state colleges. It is now in its twenty-fourth year of operation and has sent over two thousand New Jersey students to England, Australia, Denmark, Ireland, Israel, Mexico and Spain. Upon successful completion of the program, students are usually assigned 15-16 credits, which may be applied to fulfill general education, major, or elective requirements. Students usually find that for little more money than they would spend at home they can experience an exciting semester abroad. Students are entitled to the same forms of financial assistance available to regular students, since they are technically considered to be Montclair State students while abroad. In addition to programs offered in conjunction with NJCIE, other opportunities allow students to study in China, Italy, Austria, Argentina, Brazil, and Spain.

Additional information about the program and application forms are available by contacting the Director of International Studies, Dr. Benjamin F. Hadis, Russ Hall 124, telephone (201-893-7374).

Library

The Harry A. Sprague Library is housed in a centrally located, attractive modern building. The library is designed to provide ample reading and study areas, and easy access to open shelves in pleasant, comfortably furnished surroundings. Combining the best of traditional resources with the latest in non-print communications technology, the three floors of the library form a vast information center.

The library owns more than a million and a quarter items, with about 375,000 books on the shelves, over 3,500 periodical subscriptions, 27,000 government documents, and more than 900,000 non-print items. The Non-Print Media Department has equipment for viewing and hearing a collection of videocassettes, records, audiocassettes, filmstrips, soundslide sets, and microforms. As a designated government documents depository, the library receives and makes available for public use thousands of Federal and New Jersey State publications.

Public Service and Technical Service librarians are experts both in library science and in an additional subject area. The Reference librarians are dedicated to helping students learn how to approach research assignments as well as locate information. Hundreds of classes in library instruction are conducted each year by the librarians. These range from the basic introductory library lecture to classes in advanced research in the various subject fields. Reference librarians are always available to assist students with individual projects and to answer specific reference questions.

The library has the most modern computerized library technology, which provides access to the library's holdings through an on-line system. Interlibrary loan uses a computer terminal to quickly locate and send for books and articles that are not in the collection and are needed by students. On-line computerized bibliographic searching and several CD-ROM systems for comprehensive, time-saving coverage of various subject fields are available to students and faculty as regular library services. While these technological changes are important, the library's primary mission is, and will always be, the enhancement and support of the College's educational program through an excellent library collection and by personal attention to each student's individual needs. Telephone (201-893-4291).

Media Center

A well-equipped Media Center is located in College Hall. It takes care of all requests for audiovisual materials, equipment and services. The center also handles the scheduling and rental of films.

On request, the staff will demonstrate audiovisual techniques and design and produce custom graphic materials. The center lends a variety of equipment to students for special projects. Telephone (201-893-4241).

Older Adult Tuition Waiver Program

New Jersey residents 65 years of age or older are eligible to take college courses on a space available, tuition waiver basis. To apply, contact Montclair State College's Center for Continuing Education.

Location: 860 Valley Road, Legge House

Telephone: (201-893-4353).

Panzer School Council

In 1958, Panzer College, a noted single-purpose institution with a rich tradition of developing teachers for physical education and health, was incorporated into Montclair State College and became known as the Panzer School of Physical Education and Hygiene at Montclair State College. The College became the custodian and depository of Panzer College records. The Panzer School Council was established in 1971 during a reorganization of the College. Presently, the Council is part of the School of Professional Studies. Membership consists of the chairpersons of the Department of Health Professions and Physical Education, Recreation and Leisure Studies as well as the Dean of the School of Professional Studies. A major portion of the Council's efforts to aid students in extra-curricular activities are actively and generously supported by the Panzer-Montclair College Alumni Association. Such support takes the form of direct scholarship aid, providing funds for professional conferences, workshops and sports clinics. Telephone (201-893-5167).

Parking and Traffic

Parking is available for students who display current decals or permits in those areas designated on campus maps. Campus shuttle buses are available for transportation from the Quarry lots to upper campus. Decals may be purchased from the business office. Temporary permits may be obtained from campus police headquarters in Chapin Hall.

All N.J. State traffic regulations are enforced at MSC. Campus regulations are listed in the current Schedule of Courses booklet.

Police and Security

The College maintains a full-time police force, whose mission is to protect and serve members of the MSC community. The police enforce all traffic and parking regulations, being empowered to issue both campus and municipal citations. In addition they receive and investigate all reports of crimes, provide crime prevention information and handle medical emergencies.

MSC also has security officers whose primary purpose is the protection of property. (This includes fire safety activities.)

For information about police and/or security; traffic and parking; self protection seminars, and other police-related matters, call Campus Police, Chapin Hall, at telephone (201-893-5222).

Pre-Law Advisor

The College Pre-Law Advisor, Dr. Harry Balfe, counsels interested students in the possibilities and procedures for law school admissions. He also maintains a library of catalogues from law schools actively seeking qualified students. The office of the Pre-Law Advisor is located in Russ Hall 327, telephone (201-893-7757 or 4238).

Through the Pre-Law Studies Minor, assistance is offered in planning appropriate curriculum for the individual student. See DEPARTMENT OF LEGAL STUDIES for further information. The office of the Chairperson of the Department for Legal Studies, Dr. Marilyn R. Tayler, is located in Partridge Hall 313, telephone (201-893-4152).

Psychological Counseling

A staff of professional psychologists and selected interns are available from 8:30 a.m. to 4:30 p.m., Monday through Friday at the Office of Psychological Services. The staff observes the ethical standards of the American Psychological Association, guaranteeing confidentiality.

Services include short-term individual therapy, evaluations, developmental groups and group therapy, computer assisted self help programs, and off-campus referrals and to a variety of community and individual services.

Location: Gilbreth House
Telephone: (201-893-5211).

Psychoeducational Center

The Psychoeducational Center is a campus-based training facility. Its purpose is to provide integrated clinical and educational experiences for students of Montclair State College who are preparing for professional roles as audiologists, music therapists, reading teachers, speech pathologists, recreation therapists, learning disabilities specialists, or teachers of the handicapped. Training is conducted through the campus demonstration school, communication disorders center, early intervention program, testing center, music therapy clinic and summer programs which provide service to the community. The center is located in Room 118 of the Speech building, telephone (201-893-4225).

The Reading and Study Skills Center

The Reading and Study Skills Center, located in the southwest corner of College Hall, rooms C 101 to C 109, telephone number: (201-893-4247), has faculty and facilities to provide reading and study skills help to college students. Consultation, computer assisted instruction, tutoring and independent activities are available.

Religious/Campus Ministry Programs

While Montclair State does not have a House of Worship, student needs are served through religious groups, chartered by the SGA. These groups include: Chi Alpha Christian Fellowship, InterVarsity Christian Fellowship, the Jewish Student Union, Montclair Protestant Foundation and Newman—the Catholic Campus Ministry. Various Chaplains and Campus Ministers can be reached at: Newman Center: (201-746-2323 or 893-7240); Jewish Student Union; (201-893-5280); Campus Ministry Office: (201-893-5364).

Residence Halls

The College offers several choices for student residence. For undergraduates, there are five residence halls, and one apartment complex. They hold 2,000 men and women. There is also off-campus housing for more than 500 in the surrounding community.

New students are given high priority for campus residence, and returning residents have an excellent possibility of reacceptance for succeeding years.

Each hall is staffed by a Residence Hall director and student assistants. They can describe the many activities and organizations available, as well as job and leadership opportunities.

In residence halls, students choose one of the board plans at the dining halls. If they live off campus or in the apartment complex, they can sign up for a college meal plan or not, as desired

For further information, contact The Residence Life Office, Bohn Hall, Room 411, telephone (201-893-4156) for campus information and (201-893-5188) for off campus.

Student Center

The Student Center is a main gathering point for recreational and social activities. This large modern building has a cafeteria, snack bar, dining room, rathskeller, bookstore, gameroom, convenience store, information desk, and a flea market.

This building, along with the newly constructed annex and locker facility, offer ample meeting locations, comfortable lounges, a weight-room, and numerous student offices.

Telephone: (201-893-4418).

Summer Sessions

Summer Sessions provides opportunities for people to pursue college studies and take advantage of special educational, cultural and activity programs during June, July and August. The six-week session begins the last week in June. Most courses scheduled during this session meet during morning and early afternoon hours, Monday through Thursday. The eight-week session begins mid-June. Most eight-week courses meet Monday, Tuesday and Thursday evenings. In addition, short-term courses and programs are offered throughout the summer and during pre-session (first three weeks of June) and post-session (middle three weeks of August). College courses, seminars and workshops are offered on the undergraduate and graduate levels.

Qualified visiting students from other colleges and universities and Montclair State College students who meet the requirements for registration may enroll in Summer Sessions courses and programs. Interested individuals should contact the Summer Sessions Office, 215 College Hall; for further information, telephone (201-893-4352).

Television Center

A well-equipped Television Center is located in Life Hall, Room 117. It takes care of all requests for television equipment and services. On request, the staff will demonstrate television techniques and lend a variety of television equipment to students for special projects. Telephone (201-893-4341).

Winter Session

Innovation and flexibility were the reasons Montclair State College established Winter Session.

Within a three-week period devoted to intensive work during January, students are offered the opportunity to take a single course which usually could not be incorporated in the fall or spring semester schedule. Traditional courses normally offered over a sixteen-week semester may be offered in a non-traditional format during Winter Session

Winter Session affords the faculty an opportunity to develop study abroad, travel, conduct research, or explore areas of study that are new, different and thought provoking.

Location: 215 College Hall
Telephone: (201-893-4352).

The Women's Center

The Women's Center is a unit of the Student Affairs division and make available:

1. gender related information through programs and written materials;
2. discussion and support groups;
3. referral sources related to women's problems, and;
4. a library.

The Center operates in response to students' interests and needs.

The Women's Center is located in Room 420, Student Center, telephone (201-893-5106).

Student Affairs and Activities

Office of Student Affairs

The Office of Student Affairs is located in 217 College Hall and exists to provide general assistance to students, faculty, and others when their problems cannot be readily resolved through the College's routine procedures and channels.

The Vice President for Student Affairs coordinates the activities of: Admissions, Campus Ministry, Career Services, Child Care Center, Dean of Students, Financial Aid, Health Center, Intercollegiate Athletics, Psychological Services, Registrar's Office, Residence Life, Student Activities, and the Women's Center. In addition, the Vice President, assisted by the Dean of Students and Associate Dean of Students, serves as an advocate on behalf of all students attending the College.

The philosophy of the Student Affairs Office is to create opportunities for favorable personal development. The following major organizations represent the formal structure supporting that philosophy.

Student Government Association, Inc. (SGA)

All undergraduates are members of the Student Government Association. The SGA provides legal aid, drop-in center, pharmacy program, and other services through fees paid by all full-time and part-time undergraduates.

The legislative branch is composed of student representatives from each school and academic department. The executive branch consists of the president, vice president, treasurer, and secretary.

Class One Concerts (C1C)

C1C gives the College community opportunities to enjoy on-campus concerts by various popular groups and artists. Members learn all phases of concert production, and expand their awareness of professional music presentation.

College Life Union Board (CLUB)

CLUB coordinates social, cultural, and recreational student programs. Movies, trips, parties, and other activities are planned each semester. Annual CLUB events include Winter and Spring Balls, and Spring Day.

Conservation Club

The Conservation Club is MSC's newest Class One Organization. Our purpose is to serve as an educational tool for students who wish to learn more about conservation and environmental issues.

Human Relations Organization (HRO)

HRO serves students with training sessions in group dynamics and psychological development. An HRO weekend is held twice a year at a local camp site for nominal cost. HRO also sponsors on-campus seminars and group interaction during fall and spring semesters.

La Campana

The College yearbook *La Campana* is a yearly reflection of campus activities and concerns through the media of artwork, prose, poetry and photography. Students interested in photography and the graphic arts are encouraged to join.

Latin American Student Organization (LASO)

LASO promoted awareness of the Hispanic culture. This is achieved through informative educational and social programs which promotes an appreciation for an understanding of the culture. Each Fall "Latin Month" is planned to provide an opportunity to see and sample the music, art and cuisine of the Latin American culture.

The Montclarion

The weekly student newspaper keeps the College community abreast of campus news, local events, and happenings at other colleges. Members gain journalistic experience in news, feature, and sports writing, as well as copy editing, layout, typesetting, photojournalism, circulation, and advertising. All undergraduates are eligible for staff positions.

Organization of Students for African Unity (OSAU)

The programming efforts of OSAU are directed to meet the needs of minority students on campus and to expose non-minority students to minority experience. The events are quite diversified and are aimed at fulfilling the cultural, social and educational needs of our students.

Players

Players is a theatre organization which offers students the opportunity to participate in every phase of play production. Full-scale shows are presented each year. Players also sponsor theatre trips to New York City, and presents workshops by guest artists.

Quarterly

Quarterly, the literary and art magazine, also called *Four Walls* seeks original material for publication each semester. It offers students a chance to express and share their individuality with the College community.

Student Intramural and Leisure Council (SILC)

SILC provides students with an opportunity to become involved in intramural sports, recreation and leisure activities. The day-to-day programming offered by SILC includes leagues for men and women in football, basketball, softball, volleyball, tennis, and bowling. It also sponsors badminton, water polo, and pinochle, and special activities such as trips to professional sporting events and a night of roller skating.

WMSC-101.5 FM

WMSC, "the sound choice," is the College radio station run by students. It broadcasts to northeastern New Jersey seven days a week, featuring a wide selection of music and entertainment programming, news and specials. WMSC provides experience for students interested in learning radio production and management, newscasting, and disc jockeying.

Academic Policies and Procedures

Advanced Placement

Students with demonstrable equivalencies may, under appropriate circumstances, be exempted from required courses and permitted to take more advanced work. Eligibility for advanced placement may be established on the basis of high school records or by scoring sufficiently well on specialized tests including the Advanced Placement Examination of the College Entrance Examination Board, College Level Examination Program (CLEP) tests, challenge examinations, etc. Students desiring advanced placement are advised to consult with the appropriate department chairperson and school dean to determine specific possibilities within their area of competence.

Attendance

Students are expected to fulfill all course requirements, and although attendance is not always mandatory, it is desirable. Absence from laboratory or studio sessions shall be by agreement with the instructor. Instructors should notify the students, in writing, of what the course requirements will be. Professors may penalize the student for failure to meet specific attendance requirements.

It is the student's responsibility to attend at least one class meeting of all courses for which he/she is enrolled during the first week of the class to confirm his/her registration.

Audit Policy

To "audit" a course is to attend class regularly, without the obligation of participating in class discussions, laboratory work, examination, performances or any class activity other than listening. A course may be audited under the following conditions:

1. Students auditing a course are required to establish eligibility for admission, register, and pay full tuition and fees.
2. A course may be audited on a space available basis only and requires approval and signature of the department chairperson.
3. Students are required to file an Audit Application with the Office of the Registrar in additional to the registration form.
4. The College's attendance policy applies to audited courses.
5. Audited courses are considered as part of the student's regular course load.
6. Audited courses do not carry academic credit.
7. An "audit" may not be changed to "credit" nor a "credit" to "audit" after the audit application deadline.
8. The student's record will show a grade of "AU" for the course if the instructor certifies that the regulations, including required attendance, have been met.
9. A student who later seeks credit by examination for a course previously audited must be enrolled in the College at the time that the examination is taken and is subject to such fee charges for the examination as the College may establish.
10. A student who has audited a course may take the course at a later date for credit.

Basic Skills Requirements

The College expects all students to demonstrate proficiency in writing, reading, mathematics, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date and registration will not be completed for entering freshman students until the Basic Skills test scores are in. Developmental courses in reading, writing, and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT and credits will be added to the number of semester hours required to graduate. Full-time students MUST COMPLETE ALL REQUIRED DEVELOPMENTAL COURSES DURING THEIR FIRST YEAR of enrollment; part-time students within the first two years of enrollment. Students not completing this requirement may be dismissed from the college.

The MSC basic skills requirement in speech must be fulfilled within a student's first 58 semester hour credits by satisfactory completion of the speech communication requirement or by successful Speech Placement Waiver evaluation. Students may consult the department of Speech and Theatre for a fuller description of the program.

Note that Basic Reading Skills, Basic Math Skills I, Basic Math Skills II, and Basic Speech Improvement do not carry graduation credits. However, these courses do provide credits toward a student's full-time status and do count toward the student's grade point average.

Cancellation of Courses and Staffing

The College reserves the right to cancel any course for which the enrollment is insufficient. Due to the on-line registration process and earlier scheduling, there is a greater potential for course cancellation over the summer. Students may then register, without penalty, for another course for equal credit or receive a full refund of tuition and fees. The College also reserves the right to change faculty assignments and, therefore, cannot guarantee students faculty of their choice.

Class Standing

Sophomore standing is defined as a minimum of 26 semester hours earned with a cumulative grade point average of 1.60 based upon a possible 4.00 system; junior standing is a minimum of 58 semester hours earned with a cumulative grade point average of 1.80; senior-standing is a minimum of 90 semester hours earned with a cumulative grade point average of 2.00. One hundred twenty-eight semester hours (more in certain degree programs) earned with a 2.00 cumulative and major grade point average in a prescribed degree program of study are required for graduation.

Counseling

All matriculated students, full- and part-time, are encouraged to seek regular academic counseling during their college years. College counselors are available both day and evening for students who have not yet declared a major and those who intend to change majors. College counselors are also responsible for evaluating transfer credits.

Full- and part-time matriculated students who have declared majors are assigned to and counseled by faculty advisors in their respective departments. Additional information on faculty advising may be obtained by calling the Department offices.

Undeclared majors are expected to declare a major by the time they have earned 58 credits. Students are encouraged to come to the College Counseling Center office(s) for assistance in making this decision.

Course Loads

Full-Time Students

Full-time undergraduate students should earn 15-16 credit hours per semester. Special permission is required to take a Course Overload of more than 19 semester hours. To be considered a full-time student one must register for and continue active enrollment in at least 12 semester hours for the entire semester.

Full-time undergraduate students who have at least sophomore standing (26 credit hours earned) and a 3.00 or above cumulative grade point average or above a 3.00 grade point average for the semester most recently completed may, upon the approval of the Dean of the School in which the student is majoring, register for a Course Overload. A School Dean may make exceptions to the above eligibility criteria for Course Overloads. Requests for Course Overloads of 23 or more credit hours must additionally be approved by the Director of Academic Advising.

The College reserves the right to reduce the course load of any student who registers for more than 19 credit hours without Course Overload approval.

Part-Time Students

Undergraduate students who have been admitted for part-time study may not register for more than nine semester hours. Students must register for and complete a minimum of three semester hours of course work within three semesters of the date of admission; otherwise it will be necessary to reapply for admission. In addition, students who have begun course work and do not register for and complete a minimum of three semester hours of course work within any three consecutive semesters (including fall, spring and summer) will have to reapply for admission.

Course Overlap

Students may not register for courses where there is a time/day overlap. Should such a condition exist, the College reserves the right to drop one of the courses from the student's schedule.

In certain laboratory or studio type courses, in exceptional circumstances, course registration overlap may be permitted with written approval of the instructors of both courses as well as the approval of the dean and chairperson responsible for the instructional area.

Students must submit written approval to register for overlapping courses along with their registration.

Credit by Examination and Assessment of Life Experience

Montclair State College offers the opportunity to all students to earn up to 60 semester hours through the College Level Examination Program (CLEP), the Advanced Placement Examination of the College Entrance Examination Board (CEEB), the Thomas Edison College Examination Program (TECEP), departmental challenge exams or Portfolio Assessment of Experiential Learning at Thomas Edison State College.

The CLEP General Examinations offer entering students the chance to earn up to 24 credits; thus the bachelor's degree may be earned in three years. In addition to the general examinations there are also over 30 CLEP subject examinations. The following policies apply regarding the use of credit from CLEP exams toward the degree at MSC.

THESE RULES APPLY TO ALL STUDENTS ADMITTED EFFECTIVE *FALL 1988* OR THEREAFTER *AND* ALL STUDENTS (REGARDLESS OF ADMISSION DATE) WHO TEST AFTER 9/1/88.

All students are responsible to know and apply the following rules and regulations which govern the application of credit earned through CLEP General and Subject Matter Exams toward the MSC degree. It is very important that all students recognize that *ACHIEVING THE REQUIRED TEST SCORE DOES NOT NECESSARILY MEAN THAT CREDIT IS APPLICABLE TOWARD MSC GRADUATION REQUIREMENTS*. IN ADDITION, IT IS THE STUDENT'S RESPONSIBILITY TO INSURE THAT HE/SHE IS NOT SEEKING CREDIT FOR A COURSE FOR WHICH PREVIOUS CREDIT WAS GRANTED. Students who fail to adhere to these policies may not be permitted to apply CLEP credit toward the degree regardless of score on the exam.

1. CLEP General Exams must be taken prior to completion of the student's first semester Students should not register in the first semester for courses for which they plan to seek CLEP credit.

2. Subject Matter exams which are taken for possible use in fulfillment of major or collateral requirements must receive advance written approval of the major department chairperson in the form of a memo to the Director of Academic Advising. Subject exams may not be included within the last 24 credits. (see "residence requirement")

3. Those students seeking credit for ENGL 105–"Freshman Composition" via the CLEP General Exam must include the essay with the English test, and if scoring above the cut-point, will be required to submit a research paper to the Director of Freshman English to fulfill the research component of the college writing requirement. Please note that the essay is not available at each CLEP administration. ONLY STUDENTS PASSING OR EXEMPT FROM THE NEW JERSEY COLLEGE BASIC SKILLS PLACEMENT TEST IN WRITING MAY RECEIVE CREDITS FOR THE CLEP EXAM IN ENGLISH *REGARDLESS OF CLEP EXAM SCORE*. A student who fails the Writing portion of the Basic Skills test must take ENGL 100 even if achieving an acceptable score on CLEP. Students wishing to use a CLEP Subject Matter exam to obtain credit for Freshman Composition should receive advance written approval from the Freshman English Coordinator.

4. ONLY STUDENTS PASSING OR EXEMPT FROM THE NEW JERSEY COLLEGE BASIC SKILLS PLACEMENT TEST IN COMPUTATION *AND* ALGEBRA MAY RECEIVE CLEP GENERAL EXAM CREDIT IN MATHEMATICS *REGARDLESS OF CLEP EXAM SCORE*. This policy shall apply to all students seeking Math CLEP credit regardless of major.

5. Students receiving six (6) credits in foreign language will be required to complete an additional six (6) credits of foreign language to fulfill the language requirement. Students earning twelve (12) credits will be required to complete either "Introduction to General Linguistics," an upper level course in the same language, or a lower level course in a different language.

6. To receive credit a full-time student must earn a minimum of 12 semester hours with a minimum grade-point-average (GPA) of 2.00 in the first semester. A part-time student must earn a minimum of 12 semester hours within the first 14-15 semester hours attempted with a minimum GPA of 2.00.

Students having questions about these guidelines are encouraged to contact the Academic Advising Center (201-893-4106, 4146, 4223, 4237) *before* taking any CLEP tests.

CLEP tests are given nationally during the third week of each month. Montclair State College is a testing center and administers CLEP Exams monthly *except* December and February. An application and testing schedule may be obtained by calling 201-893-5154 or writing:

CLEP Testing Center
Center for Continuing Education
Montclair State College
Upper Montclair, New Jersey 07043

Montclair State offers students the opportunity to take subject matter challenge examinations for many courses. Not all courses at the College are eligible for credit by examination.

To receive credit by examination:

1. In the first semester, a full-time student must earn a minimum of 12 semester hours with a minimum grade-point-average (GPA) of 2.00.
2. A part-time student must earn a minimum of 12 semester hours within the first 14-15 semester hours attempted with a minimum GPA of 2.00.

Credit for Life Experience

Montclair State College uses the evaluating services of Thomas Edison College for those who want life experience credits. All requests for evaluation must be made to Thomas Edison College in the first semester of enrollment. This evaluation and a report of credit will be sent to Montclair State. Failure to initiate the process in the first semester can cause the student the loss of credit.

Final Evaluation

It is the student's responsibility to complete the curriculum prescribed in the College catalog in effect, or as subsequently modified, when he/ she matriculates. For undergraduates, a minimum cumulative grade point average of 2.00 (C) and major grade point average of 2.00 based upon a possible 4.00 system is required. Inquiries pertaining to an individual's program of studies shall be referred to the appropriate academic or faculty advisor. It is the student's responsibility to meet all graduation requirements.

Students who are eligible for graduation must file an *Application for Final Evaluation* in the Office of the Registrar according to the following schedule: **by October 1 for the following June; June 1 for the following January; March 1 for the following August graduation.**

The student will be mailed a copy of the final evaluation listing requirements that must be completed in order to meet the intended date of graduation/certification. Students who wish to confirm receipt of the *Application for Final Evaluation* by the Office of the Registrar should consult the list posted outside the office during the month immediately following the filing deadline.

Baccalaureate degree candidates who have been evaluated for New Jersey Teaching Certificates must complete the *Application for Certification* and pay the required fees in the Office of the Registrar during the following periods: **March 15 to April 15 for June graduation; October 15 to November 15 for January graduation; July 1 to August 1 for August graduation.**

Effective October 15, 1985, the New Jersey State Board of Education requires candidates for *instructional* certificates to take sections of the National Teacher Examination and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Education, Room 006, Chapin Hall.

Final Examinations

Final examinations and evaluations are generally of a comprehensive nature covering the semester's work, but the form, determined by the nature of the course subject matter, varies with individual professors and classes. A schedule of final examinations is found in the Schedule of Courses booklet each semester.

Final examinations are weighted in relation to other evaluations which are made throughout the semester and do not replace periodic tests and other means of measuring student progress.

Grades and Standards

There are seventeen grades used at Montclair State College:

A	4.0 Excellent	**C**	2.0 Fair	**P**	Pass
A-	3.7	**C-**	1.7	**IN**	Incomplete
B+	3.3	**D+**	1.3	**WD**	Withdrew
B	3.0 Good	**D**	1.0 Poor	**AU**	Audit
B-	2.7	**D-**	0.7	**NC**	No Credit
C+	2.3	**F**	0.0 Failure		

All Basic Skills courses, whether they carry credit toward graduation or not, contribute to the grade point average.

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal; or (3) withdrawal after the midpoint in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The grade "IN" is intended to indicate that the student has not completed the course and that a grade is being withheld until the work is performed and approved. Students must enter into a formal contract with the faculty prior to the end of the semester, using the form available in the Office of the Registrar. The "IN" if not replaced with a final grade by May 1st for Fall and Winter incompletes and December 1st for Spring and Summer, will become an "F." Exceptions can be granted only upon petition to the appropriate School Dean.

A change of grade request from other than an "IN" grade, must be processed by faculty and approved no later than the end of the next full semester following the semester in which the grade was earned.

Graduation Honors

Undergraduate students who have completed a minimum of 60 undergraduate credits at Montclair State College are recognized for academic honors. Grades of "A" through "D-" must be received for a minimum of 48 of these 60 credits.

Academic honors are awarded as follows:

Average of 3.45 - 3.64 cum laude
Average of 3.65 - 3.84 magna cum laude
Average of 3.85 - 4.00 summa cum laude

An honors diploma will be awarded in addition to the regular diploma. A period of 3-4 months should be allowed for verification of cumulative average, printing, and mailing. However, the honors notation will appear on the official transcript after graduation.

Honors List

The Academic Honors List, issued after the close of each semester by the academic deans, gives recognition to students with a 3.50 or higher semester grade point average (GPA). A minimum of 12 credits must be earned in courses that contribute to the GPA.

Independent Study

Montclair State College offers opportunities for students to undertake academic credit on an independent study basis. Students who wish to register for courses on an independent study basis must obtain an "Independent Study Application" form from the Office of the Registrar. This form must be completed in full and approved by the instructor and the department chairperson prior to registration.

One copy of this form is to be retained by the student. One copy is to be submitted to the department chairperson, one copy remains with the instructor and the original must be submitted at the time of registration, along with a registration form.

All courses which are approved to be taken on an independent study basis must also be listed on the registration form. The full course number is required.

Leave of Absence

Full-time undergraduate students in good academic standing (minimum cumulative grade point average, 2.00) may take a leave of absence of one or two semesters by arrangement through the Academic Advising and Tutorial Center located in Building E.

Students who take a leave are guaranteed readmission if they file with the Office of Admissions an application for readmission by August 1 for the fall semester and December 1 for the spring semester. Upon termination of the leave period, students are no longer guaranteed reinstatement and must follow normal readmission procedures if they wish to attempt to return to college.

Major Declaration

Undeclared majors should declare a major by the time they have earned 58 semester hours. Students are expected to complete the major for which they apply within the normal number of semester hours required for completion of the degree program. For most undergraduate degree programs, this is 128 semester hours; however, certain programs require more than 128 semester hours. Students may accrue more than the number of credits usually required for completion of the degree as a result of changing majors but will not be permitted to accrue additional credits for the purpose of establishing additional majors or minors. Students expecting to establish additional majors or minors beyond the normal number of credits required for completion of the degree are required to obtain permission from the Director of Academic Advising. Students may not declare additional majors or minors after they have applied for final evaluation for graduation.

Pass/Fail Grading

1. Available to Montclair State College Undergraduates Only. All Montclair State College undergraduates are eligible to select one course per semester for which they are registered for pass/fail credit, not to exceed 24 semester hours in the degree program.
2. Eligible Courses: Only those courses which are free electives in the students program. The purpose of this option is to encourage students to explore unfamiliar areas of study without concern for the effect on academic standing.
3. Courses offered on a pass/fail basis only will not preclude the student from also taking an additional course on a pass/fail option.
4. Grading: Students will receive either a grade of "P" (pass) or "F" (fail) for course work completed under the option. A grade of "P" does not affect the student's average; however, a grade of "F" will have the same effect as a traditional failure.
5. Students may elect to rescind the pass/fail application at any time prior to the mid point of the semester. Students should know that letter grades will not replace "P"s if changing majors, attending graduate school, for certification or other colleges requiring letter grades.

Procedure:

Any student electing the pass-fail option must complete a "Pass/Fail Application" and return it to the Office of the Registrar prior to the end of the third week of classes for regularly scheduled courses or its equivalent for short term and summer courses.

Plagiarism

All papers, reports and research submitted by students shall be their own except as properly annotated. The copying or imitating of others' work is plagiarism. A student guilty of plagiarism may be subject to dismissal.

Registration

Registration for incoming students is accomplished through an on-line procedure during the summer prior to the start of classes. Registration appointment cards will be mailed to all returning students at their permanent address. These cards will have a personal registration appointment time indicated.

Further directions will be found in the Schedule of Courses booklet.

Repeated Courses

A student should repeat a failed course as soon as possible.

To repeat a course a student must register, make payment for that course and file a Repeat Course card with the Office of the Registrar. There is no special approval required to repeat a course in which a grade of "F" was received. A course repeated at another institution does not remove a "D" or "F" at Montclair State College.

A student must repeat a failure if the course is required for graduation. When a course has been repeated both the original and subsequent courses are included on the permanent record, but the credit is counted only once. The grade received in the repeated course becomes the official final grade. Generally, students may not repeat courses in which grades of "D" were received. A student may repeat a sequential course in which a grade of "D" was received with the approval of the department chairperson in which the course was taken as well as approval of the Vice President for Academic Affairs, providing permission is obtained prior to registration. Only the first half of a sequential course with a grade of "D" may be repeated and shall be done prior to taking the second half. The regulations for failed courses also apply to a repeated course in which a grade of "D" was received. Courses in which the student received grades other than "D" or "F" cannot be repeated. Repeated course forms are available in the Office of the Registrar, C-204.

Residence Requirements

A minimum of 32 credit hours of the total required for the baccalaureate degree must be completed at Montclair State College. The final 24 credit hours required for graduation must be taken at Montclair State College and cannot be acquired through transfer.

Any student who transfers from another institution with advanced standing in a major field of study is required to complete a minimum of twelve credit hours of upper level course work in the major at Montclair State College. Some curricula may require more than this minimum.

Retention Standards

All undergraduate students whose cumulative grade point average (GPA) is below 2.00 are automatically on probation. Full-time undergraduates are expected to earn an average of 12 semester hours per semester of attendance.

Students are subject to non-retention if the cumulative GPA is below minimum retention for the number of semester hours earned. Semester hours earned include all courses passed at Montclair and any credits earned through transfer, credit by examination or assessment. First semester freshmen and first semester transfers falling below retention are automatically given a semester of probation before furlough, suspension or dismissal.

	Total Semester Hours Earned		
	0-57	*58-89*	*90 plus*
Minimum Retention	1.60	1.80	2.00
Academic Furlough	1.40-1.59	1.60-1.79	1.80-1.99
Academic Suspension	1.00-1.39	1.20-1.59	1.40-1.79
Academic Dismissal	0-.99	0-1.19	0-1.39

Furlough

Academic furloughs are given to students whose cumulative GPA is below retention (not more than 0.20 below) and/or are not making satisfactory progress for the degree. When a student is on academic furlough, he or she may not take course work at Montclair State.

Students given an academic furlough are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the Academic furlough. Readmission is automatic.

A student who is readmitted from academic furlough is given two semesters to raise the cumulative GPA to retention level and make satisfactory progress towards the degree. If the student does not perform at a 2.00 level the first semester back or is not at retention level after two semesters, the student is given an academic dismissal.

Suspension

Academic suspensions are given when a student's cumulative GPA is below retention level and/or is not making satisfactory progress for the degree. When a student is on academic suspension, he or she may not take course work at Montclair State.

Students given an academic suspension are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the academic suspension. Readmission is not automatic. It is based on the probability of success in the chosen major and upon the space available at the time.

Retention requirements after readmission from academic suspension are the same as those listed above for academic furlough.

Dismissal

Academic dismissals are given to students whose cumulative GPA is more than 0.60 below retention level or to students who have returned from furlough and suspension and did not achieve at a suitable level. A student placed on academic dismissal is not eligible to return to the College.

Standards for Formal Written Work

Most courses at Montclair State College require written assignments, because writing is one of the best ways to explore, refine, and demonstrate knowledge. The following statement describes the mental operations and the writing skills that the faculty expects in your *formal* written work. (You should assume that an assignment requires formal preparation unless your instructor states otherwise.) The Freshman Composition course provides a solid foundation in these abilities, but that is only the beginning. The written work that you do in all your courses will build on the foundation established in Freshman Composition, developing your ability to think and to communicate your thoughts in writing.

In the academic world, as in the world at large, readers will judge your written work primarily on the basis of its content; that is, on the quality of the information and opinions it contains. However, the careful organization and the clear, concise expression of that content are essential if your readers are to grasp your full meaning. The faculty will therefore evaluate the organization and expression of your written assignments along with the content. Grammar, mechanics, and appearance will also be considered, because problems in these areas can interfere with readers' comprehension of your work, or even prevent them from giving it their serious attention.

Individual departments and instructors may add their own requirements to this statement, and each instructor will decide how the various elements will influence grading in a particular course. However, in the course that you will take to satisfy your graduation requirement in writing, you will be given a grade of Incomplete and referred to the Writing Workshop if your writing has severe problems. This will apply regardless of the average grade of any other work done in that course.

If you have questions about this document, you may seek clarification from your instructors, from the English Department, or from the Writing Workshop staff. The Writing Workshop offers consultation and tutorial help to all students on a drop-in basis, 313 Partridge Hall, (201-893-7442, 4249). There is no charge for this service.

Writing and Thinking

You should be able to perform with college-level competence the mental operations on which written work depends. These include:

- **Generalization:** Finding the common element that relates particular examples or instances to each other; abstracting.
- **Inference:** Drawing out meanings that are implied but not stated explicitly; reading between the lines.
- **Analysis:** Examining parts of the whole, such as causes, effects, and processes.
- **Synthesis:** Forming ideas into new relationships; creating.
- **Evaluation:** Making judgments according to criteria.

You should be able to apply to new situations the knowledge you have gained from your classes, your reading, and your investigations.

You should be able to draw your own conclusions, rather than simply to restate or summarize the ideas of others.

You should be able to state a thesis clearly and support it with reasoning and evidence.

You should be able to organize the parts of a paper in an orderly sequence, governed by a controlling purpose that is clear to the reader. Paragraphs and subsections should also have their own internal order.

You should be able to adapt what you write to the needs and expectations of your intended audience, whether it is your peers, your teacher, other scholars in a discipline, or the general public.

The Writing Process

Successful writing is seldom merely the recording of the writer's first thoughts. More often it is the result of a process involving several stages. You should know how to use strategies that will help you to:

- Choose and limit a topic
- Collect information
- Develop ideas
- Produce rough and polished drafts
- Revise and edit
- Proofread

Library Research and Documentation

You should be able to find and use materials published in various forms, including books, periodicals, newspapers, government documents, abstracts, microforms and recordings.

You should be able to summarize or paraphrase the written work of others. Paraphrased material must be completely restated in your own words, and should blend smoothly into your style.

You should be able to identify your source material according to the method your instructor requires. Data or distinctive ideas taken from sources must be identified by a footnote or some other form of citation, *even if those ideas are not quoted directly*. Direct quotations must be identified by a citation as well as by quotation marks or block indentation.

Failure to treat source material properly may be construed as plagiarism, a serious academic offense. (see Plagiarism under Academic Policies and Procedures.)

Standard English, Grammar, Style

Your papers should be written in formal, standard English. They should be free of nonstandard constructions (such as double negatives) and of informal usage (such as "The experiment went O.K.").

Your sentence structure should be free of major grammatical problems, such as sentence fragments, subject-verb disagreement, inconsistent verb tenses, unclear pronoun reference, and misplaced modifiers.

Your sentences should be clear and concise, showing capable use of the tools necessary to a mature writing style, such as coordination, subordination, parallelism, and transitional devices.

Your choice of words should be precise and appropriate to your subject. You may sometimes find it essential to use technical terms, but you should always avoid unnecessary jargon.

Mechanics and Appearance

Your papers should contain no errors in spelling, punctuation, capitalization, or typing.

You should show careful attention to matters of appearance, including legibility, neat corrections, and suitable presentation.

The use of a word processor is encouraged, provided that the printout is easily readable.

If your instructor does not specify how you are to present your paper you may follow these recommendations:

Use a cover sheet that includes:

- your name
- the title of the paper
- the title and section number of the course
- the name of the instructor
- the date

Make margins at least one inch all round.

Number the pages.

If possible, type your formal papers.

- Use standard typing paper: 8½ x 11 inch, white, medium weight.
- Use dark typewriter ribbon. Keep the keys clean.
- Double space.

If you cannot type your paper or have it typed, make sure that your writing or printing is legible.

Make corrections neatly. Use an eraser, correction tape, or correction fluid. If you discover an error at the last minute, make a neat correction right on the paper.

Student Responsibility

The College expects students to assume responsibility for knowing and meeting the various regulations and procedures set forth in the College catalogs and in the schedule of courses booklet published each semester. The College reserves the right to terminate the enrollment of any student whose conduct, class attendance, academic record or financial obligation should prove unsatisfactory.

Student Rights

The Family Education Rights and Privacy Act of 1974 (Buckley Amendment) permits the College to release directory information about a student unless the student specifically requests that this information be withheld. Students who do not wish directory information to be released should notify the Office of Vice President for Student Affairs within the first two weeks of each semester.

Transcripts

To obtain a transcript, students must complete a transcript request form, available through the Office of the Registrar. A fee of $2.00 per copy is payable in advance to Montclair State College. If more than 5 student copies are requested, a maximum of $10.00 will be charged for no more than 10 student copies ordered at one time. If more than 5 official copies are requested, a maximum of $10.00 will be charged with no maximum on the number of transcripts ordered; however, a separate transcript request form must be completed at the same time for each request. Please allow 10 working days for processing of all transcript requests. Additional time should be allowed for transcripts processed at the conclusion of each College session.

Transcripts will not be released for students who have an obligation (i.e., financial, library, parking, loan, etc.) to the College.

Transfer Credit

MSC undergraduate students who wish to take courses at another institution and transfer the credits to MSC must complete the form "Request for Work at Another Institution" available in the Office of the Registrar prior to enrollment in the course(s) they wish to transfer. All accepted credits will be listed, without grades, on the student's permanent record. Grades earned at other institutions are not included in cumulative average. However, transfer credit hours are used in determining the student's class level.

All specific requirements for the degree must be completed even though this may involve more than that expected by the student at the time of transfer. Courses with grades of "D" or "F" are not accepted for transfer credits.

Transfer Credits

Non-Accredited Institutions

To receive evaluated credit from an institution licensed by a state to grant degrees but not regionally accredited:

1. in the first semester, a full-time student shall earn a minimum of 12 semester hours with a minimum grade point average of 2.00.
2. a part-time student shall earn a minimum of 12 semester hours in the first 14-15 semester hours attempted and with a minimum cumulative grade point average of 2.00.

Undergraduates in Graduate Courses

MSC seniors within 16 semester hours of completing the baccalaureate degree requirements, who possess at least a 2.67 grade point average and have taken all required prerequisites, may apply to take up to 6 hours of 500 level courses for either undergraduate *or* graduate credit, if prior permission is granted. A graduate course taken for undergraduate credit *cannot* later be included in a graduate degree program. If courses are taken for graduate credit, graduate tuition and fees will be charged. Appropriate forms are available at the Office of Graduate Studies.

Admission of an undergraduate to a graduate (500 level) course does not imply future acceptance into any graduate program. That can only be done by a separate admission process. Those planning to matriculate in graduate programs at the College should refer to the Graduate Catalog for specific admission requirements.

Veterans

The Office of Veterans' Affairs provides information and advice to students regarding federal and state Veterans' benefit programs. All veterans who enroll at the College should contact the office as early as possible in their academic program. Benefits are not available for audited courses. Any change in student status must be reported to the Office of Veterans' Affairs in writing.

All veterans who completed a minimum of six months active duty are eligible to receive three elective credits, one of which fulfills the one semester physical education requirement Applications to receive these credits are available from the Veterans' Office.

All Veterans must submit a copy of their discharge papers to the Office of Veterans Affairs, College Hall Room 317 A. Telephone: (201-893-5180, 4461).

Waivers and Credit Adjustments for Freshman English

The following policies apply to students entering as freshmen or as transfer students beginning in Fall 1988.

To obtain waivers or credit adjustments for Basic Composition, Freshman Composition, and Introduction to Literature, students must see the Freshman English Coordinator.

Waivers of Freshman Composition, with or without credit, must be completed before the end of the sophomore year for students who enter the college as freshmen. Transfer students must complete these waivers by the end of their first semester of attendance.

I. Waiver of Requirement *without* Credit
   A. For Freshman Composition (satisfies the Communication Requirement in Writing):
      Submit an acceptable research paper demonstrating college-level skills in both writing and research. (Students must first qualify to take Freshman Composition by achieving the appropriate score on the New Jersey College Basic Skills Placement Test.)
   B. For Introduction to Literature (satisfies the Communication Requirement in Reading):
      Score 3 or higher on the ETS Advanced Placement Examination in English Literature and Composition (not Language and Composition). The Communication Requirement in Reading is waived, and the student has the option of taking Introduction to Literature *or* another course in English or American literature.

II. Waiver of Requirement *with* Credit
   A. For Freshman Composition: Waiver of the Communication Requirement in Writing and award of 3 credits.
      1. Score 3 or higher on the ETS Advanced Placement Examination in English Literature and Composition *or* English Language and Composition. Submit an acceptable research paper demonstrating college-level skills in both writing and research.
      2. Score 530 or higher on the ETS College Level Examination Program (CLEP) General Examination in English with essay. Submit an acceptable research paper demonstrating college-level skills in both writing and research. (Students must first qualify to take Freshman Composition by achieving the appropriate score on the New Jersey College Basic Skills Placement Test.)
   B. For Introduction to Literature: Waiver of the Communication Requirement in Reading and award of 3 credits. Score at or above the 50th percentile on the ETS College Level Equivalency Program (CLEP) Examination in Analysis and Interpretation of Literature.

Withdrawal from Courses

Students who wish to withdraw from courses must complete the withdrawal form or send a written notice to the Office of the Registrar. (Notification to the instructor or a "Stop Payment" of a check does not constitute an official withdrawal from the College.) Upon receipt of the withdrawal notice, student will be given or sent acknowledgement. Any student who fails to receive such acknowledgement within two weeks should immediately notify the Office of the Registrar. Withdrawals are computed from the date of receipt of the written notice or from the date of the U.S. postmark for those received through the U.S. mail. Students who do not submit a written notice will receive the mark of "F" in those courses which they cease to attend. See the current Schedule of Courses booklet for deadline dates.

Withdrawal from College

A full-time undergraduate student wishing to withdraw from the College must complete an official withdrawal form obtained in the Academic Advising Center. If the student is a minor, the signature of a parent or guardian is required on the withdrawal form. Strict adherence to the withdrawal procedure is necessary for possible readmission.

Special Withdrawal Procedure

Students who find it necessary to withdraw after the midpoint of the semester for medical reasons or personal emergency must petition the Dean of Students in writing, and provide supporting documentation.

Requirements for the Undergraduate Degree

The academic program of this College has been designed to provide each student with an in-depth experience in a major program, a sequence of courses to develop basic communication skills, and a series of general education courses to expose the student to the breadth and methods in the various fields of human knowledge. The structure of the general education program is designed to provide the best comprehensive liberal arts education for all students.

The following pages provide a description of the degree program requirements and an outline of the general education program required of all students.

These requirements are basic and should be a major part of the first two years of a student's undergraduate program. Departmental curriculum guides provided for your major course sequence should also be consulted.

In addition to the requirements stated above, the Board of Higher Education has mandated that a series of Basic Skills Tests be administered to all incoming students. If the student is found to have deficiencies in the areas of reading, writing, or basic mathematical skills, remedial courses are required and the student is expected to meet minimum standards during the first year of attendance at the College.

General Education Requirement ..... 34-58 Semester Hours

B.A./B.S ..... 58 Semester Hours
B.F.A./B. Mus ..... 34 Semester Hours

Major Field ..... 33-82 Semester Hours

Graduation Requirement in Writing

Electives ..... 12-37 Semester Hours

Minorities Culture Requirement (one course)
Minimum number of semester hours required for graduation ..... 128 Semester Hours

Teacher certification requirements involve use of 27-28 semester hours of the electives. Some teacher certification and other major programs require completion of more than 128 semester hours prior to graduation. For details on specific programs, consult the academic programs section of this catalog and the program worksheets obtained from the College academic advisor or faculty advisor. General information on teacher certification may be found in this catalog, listed under Other Academic Programs, Teacher Education in the Table of Contents.

General Education Requirement (GER)

The General Education Requirement at Montclair State College is among the most comprehensive in area college and universities. On completion of the requirement, one will enjoy the benefits of the best of the traditional liberal arts curriculum: facility in a foreign language, a sense of history, a perspective on social sciences, a familiarity with the humanities and art, and an understanding of mathematical and scientific principles and some of their contemporary applications. Beyond these traditional areas, one will have had the opportunity to study a major non-Western culture and several non-Western literary masterpieces. At least one important contemporary issue will have been examined in depth, and an introduction to computers will have been provided.

The courses taken to fulfill this requirement are designed to impart not merely information, but techniques of problem solving and analytical thinking. Primary readings in the work of classical thinkers and substantial writing assignments will be featured in nearly every course. Whenever possible, professors will show how several academic disciplines bear on a single problem or topic.

The General Education Requirement dedicates some of the major resources of the College to the benefit of introductory students. Combining the strength of the liberal arts curriculum with a contemporary approach to social and technological change, it supplies a valuable balance to any major program.

The following General Education Requirements apply to full-time freshman and part-time students who began their studies at Montclair State College in Summer/Fall, 1983 or thereafter and transfer students entering the College in Fall 1985. These requirements are subject to change. Periodic visits to your faculty advisor or College academic advisor are strongly recommended to avoid difficulties in meeting graduation requirements.

Bachelor of Arts and Bachelor of Science

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

See General Education Requirement, Appendix of Courses, in this section of the catalog for specific courses that fulfill requirements within the GER categories listed below.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for these purposes, except that courses in a student's major department may not be used to satisfy the "General Education Electives" requirement described in section J below.

A. Communication — 9 Semester Hours

Writing

A course in composition which will help develop the ability to express oneself clearly, lo convey information fully and concisely, to persuade others effectively in standard written English, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading

A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course is designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening

A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues

3 Semester Hours

An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts: Art Appreciation

3 Semester Hours

A course in the inherent styles and qualities of a particular art form, designed to provide familiarity with important masterpieces in an historical and stylistic context, an understanding of the processes involved in creating art, and an ability to recognize and appreciate excellence.

D. Foreign Language

6 Semester Hours

A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.

Note: FOREIGN LANGUAGE PLACEMENT
As part of the General Educaiton Requirement, all students at Montclair State College must take six credits of a foreign language. All entering students who wish to continue studying a foreign language studied in high school will take a placement test in that language. They will be placed according to the results of the test—with the following restrictions:

1. *students who have had two years of a foreign language in high school may only use courses number 102, 103, 104, 112 or higher to fulfill the GER foreign language requirement if they continue a language they studied in high school;*
2. *students who have had three or more years of a foreign language in high school may only use courses numbered 103, 104, 121 or higher to fulfill the GER foreign language requirement if they continue a language they studied in high school;*
3. *any exception to the foregoing must be approved by the chair of the appropriate department.*

A student who wishes to begin a NEW language and has had NO EXPOSURE to that language, will be exempt from the placement test. Six consecutive hours in the new language will be required.

A student who places above the intermediate level in the placement test may fulfill the GER foreign language requirement in one of two ways:

1. *by taking a ONE semester course above the intermediate level in the language tested;*
2. *by taking the ONE semester course STRUCTURE OF AMERICAN ENGLISH offered by the Linguistics Department.*

E. Humanities

6 Semester Hours

1. World Literature or General Humanities: 3 Semester Hours

World Literature

A course in major works of world literature from Western and non-Western literary traditions. Taking the course will provide you with an expanded awareness of national and international cultural concerns, as well as a heightened sensitivity to literature.

General Humanities

An interdisciplinary course in General Humanities with emphasis on the great questions which have concerned and inspired artists and thinkers through the ages. The course will provide you with greater knowledge of the range of humanistic achievement in several areas of creative endeavor, and a deeper understanding of the values of different civilizations.

2. Philosophy/Religion: 3 Semester Hours
   A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics

5 Semester Hours

1. Mathematics: 3 Semester Hours
   A course in mathematics as a tool of scientific investigation and as a significant part of our heritage, stressing an appreciation of mathematics as a tool for problem solving and analysis, and a greater ability to think precisely and logically.
2. Computer Science: 2 Semester Hours
   A course illustrating the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy.

G. Natural/Physical Science

7 Semester Hours

1. Laboratory Science: 4 Semester Hours
2. Non-Laboratory Science: 3 Semester Hours
   Two courses in natural/physical science, at least one with a laboratory component. The courses are designed to provide the ability to appreciate and utilize the scientific method. Selected findings in a particular field, the methods employed to obtain them, their historical and contemporary significance, and some of the applications will be emphasized in each course.

H. Physical Education

1 Semester Hour

A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science

12 Semester Hours

1. American or European History: 3 Semester Hours
   A course in American or in European History. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide the perspectives on the influence of the past in shaping contemporary conditions.
2. Non-Western Cultural Perspectives: 3 Semester Hours
   A course in the culture or civilization of indigenous peoples in Africa, Asia, or the Americas. Completing this requirement will provide important insights into the development of cultures not influenced in their formative stages by Western civilization.
3. Social Science (other than History): 6 Semester Hours
   Each student will take one survey and one topic course.
   a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.
   b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.

   Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance in understanding ourselves, our society, and the world.

J. General Education Electives

6 Semester Hours

1. GER approved courses (other than Physical Education)
2. General introductory courses at the 100-level or 200-level in any department in the schools of Fine and Performing Arts, Humanities and Social Sciences, and Mathematical and Natural Sciences.
3. Courses in the areas of Creative Expression and/or Personal/Professional Issues

Creative Expression

An elective course in the creative process in a particular art form. A creative expression course will afford the opportunity to be personally involved in a creative activity and gain insights into both the technical difficulties and the creative choices which artists face. One should develop not only a lifelong appreciation of the arts, but also remain an active participant.

Individual and Professional Issues

An elective course in personal or professional development. Taking one of these courses should provide a better understanding of oneself, teach one how to interact with others more effectively, or gain a more developed perspective on career choices.

Note: General Education Electives must be taken outside the student's major.

Bachelor of Fine Arts and Bachelor of Music

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

See General Education Requirement, Appendix of Courses, in this section of the catalog for specific courses that fulfill requirements within the GER categories listed below.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for these purposes.

A. Communication — 9 Semester Hours

Writing

A course in composition which will help develop the ability to express oneself clearly, to convey information fully and concisely, to persuade others effectively in standard written English, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading

A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course is designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening

A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues — 3 Semester Hours

An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts: Art Appreciation — (Not Applicable)

D. Foreign Language — 6 Semester Hours

A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills; increased cultural understanding. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.

Note: FOREIGN LANGUAGE PLACEMENT

As part of the General Educaiton Requirement, all students at Montclair State College must take six credits of a foreign language. All entering students who wish to continue studying a foreign language studied in high school will take a placement test in that language. They will be placed according to the results of the test—with the following restrictions:

1. *students who have had two years of a foreign language in high school may only use courses number 102, 103, 104, 112 or higher to fulfill the GER foreign language requirement if they continue a language they studied in high school;*
2. *students who have had three or more years of a foreign language in high school may only use courses numbered 103, 104, 121 or higher to fulfill the GER foreign language requirement if they continue a language they studied in high school;*
3. *any exception to the foregoing must be approved by the chair of the appropriate department.*

A student who wishes to begin a NEW language and has had NO EXPOSURE to that language, will be exempt from the placement test. Six consecutive hours in the new language will be required.

A student who places above the intermediate level in the placement test may fulfill the GER foreign language requirement in one of two ways:

1. *by taking a ONE semester course above the intermediate level in the language tested;*
2. *by taking the ONE semester course STRUCTURE OF AMERICAN ENGLISH offered by the Linguistics Department.*

E. Humanities — 3 Semester Hours

Philosophy/Religion

A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics — 2 Semester Hours

Computer Science

A course in the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy i.e., the ability to perform basic tasks in a standard computer language.

G. Natural/Physical Science — 4 Semester Hours

Laboratory Science

A course in natural/physical science with a laboratory component. The course is designed to provide the ability to appreciate and utilize the scientific method. Selected findings in a particular field, the methods employed to obtain them, their historical and contemporary significance, and some of the applications will be emphasized in the course.

H. Physical Education — 1 Semester Hour

A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science — 6 Semester Hours

1. American or European History: 3 Semester Hours
   A course in American or in European History. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide the perspectives on the influence of the past in shaping contemporary conditions.
2. Social Science (other than History): 3 Semester Hours

   A course in social sciences other than history.

   a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.

   b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.

   Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance in understanding ourselves, our society, and the world.

J. General Education Electives — (Not Applicable)

Major Field

Since one of the main purposes of an arts and science program is to give the student a broad general education, requirements for an arts and science major are generally limited to 33-82 semester hours. Requirements for major programs vary; a number of these major programs have "tracks" or concentrations. For details on specific programs, consult the academic programs section of this catalog and the program work sheets prepared by the College academic advisor or faculty advisor.

Free Electives

Students may fulfill their remaining credits for a minimum of 128 semester hour degree requirements through the selection of any other courses. Students may also choose a minor in a field by taking the appropriate course work as part of their free electives. They may also use electives to meet the teacher certification requirements.

Minorities Culture Requirement

The purpose of the Minorities Culture Requirement is to ensure that all graduates of MSC be acquainted with the life, history, and cultural contribution of a group recognized by the larger society as constituting a disadvantaged subculture in the U.S.* Even though women do not represent a statistical minority, they have shared "minority" status and are considered as part of the group recognized by this requirement.

*Race and ethnicity as defined by the Equal Employment Opportunity Commission

1. Blacks
2. Hispanics
3. American Indians or Alaskan Natives
4. Asian/Pacific Islanders

The following is a listing of the courses which meet this requirement. Certain of the courses listed below may simultaneously be used to meet the General Education Requirements and/or the Human and Intercultural Relations Requirement for Teacher Education, *if they are included on the approved list* of these courses.

Anthropology
ANTH 100 Cultural Anthropology
ANTH 200 Urban Anthropology
ANTH 206 Human Variation
ANTH 301 Peoples of Africa
ANTH 302 Native Latin Americans
ANTH 305 Native North Americans
ANTH 307 Ethnology of Southeast Asia and Oceania
ANTH 311 Anthropology of American Subcultures
ANTH 415 Women in Traditional Society

Classics
GNHU 186 Myths and Images of Women in French Literature
GNHU 381 Africa in Classical Antiquity
GNHU 383 Women in Antiquity
GNHU 399 Development of Black Thought

Counseling, Human Development and Educational Leadership
COUN 481 The Legal Rights of Women

Curriculum and Teaching
CURR 412 Field Work in Urban Education
CURR 423 Teaching in Urban Schools

Economics
ECON 215 The Economics of Social Problems

Educational Foundations
EDFD 264 Sexism in American Education
EDFD 445 Puerto Rican Children in Mainland Schools

English
ENGL 238 Afro-American Writers
ENGL 294 Women Poets
ENLT 366 African Myth and Literature

Environmental, Urban and Geographic Studies
EUGS 206 Introduction to American Urban Studies
EUGS 301 Urban Field Studies
EUGS 308 Land and Life in Latin America
EUGS 313 Urban Geography
GELA 100 The Many Worlds of Latin America: Interdisciplinary Perspectives

Fine Arts
ARHS 220 Art in Non-Western Societies
ARHS 275 Afro-American Art
ARHS 458 Traditional Arts of Sub-Saharan Africa

History
HIST 108 Introduction to African Civilization
HIST 114 Early Latin American Civilization
HIST 115 History of Puerto Rico
HIST 131 Introduction to Indian Civilization
HIST 132 Introduction to Chinese Civilization
HIST 133 Modern Chinese Civilization
HIST 205 Minorities in American History
HIST 215 Women in American History
HIST 217 History of Black Americans

Home Economics
HECO 205 Women in Contemporary Society
HEFM 445 The Inner City Family

Linguistics
LNGN 255 Women, Men, and Language

Management
MGMT 332 Minorities in Business

Music
MUGN 150 Influence of Afro-American Culture on Music
MUGN 209 Introduction to Jazz
MUGN 309 The Art of Jazz

Philosophy and Religion
PHIL 237 Oriental Philosopy
RELG 210 Religions of the North American Indians
RELG 212 Oriental Religions
RELG 267 Women in Religion

Political Science
POLS 204 Government and Politics of Africa
POLS 206 Government and Politics of China and Japan
POLS 214 Women in Politics
POLS 308 Ethnic Politics in America
POLS 312 Black Politics in America
POLS 404 Government and Politics of India and South Asia
POLS 405 Government and Politics of Latin America

Psychology
PSYC 102 Women's Worlds
PSYC 231 Psychology of Agression
PSYC 246 Psychology of the Black Experience
PSYC 265 Psychology of Women
PSYC 345 Mental Health Issues of Hispanic Americans

Reading and Educational Media
MEDI 355 Media in Intercultural Communication

Sociology
SOCI 202 Racial and Ethnic Relations
SOCI 205 Black Family
SOCI 311 Urban Sociology
SOCI 315 Social Stratification
SOCI 430 Sociology of Gender

Spanish and Italian
SPAN 270 Spanish-American Cultural History*
SPAN 280 Cuban Cultural History*
SPAN 360 Hispanic Community Program*
SPAN 472 Puerto Rican Literature and Thought*
SPAN 475 Seminar on Hispanic Culture in the U.S.*

Speech and Theatre (Broadcasting, Speech Communication, Dance and Theatre, effective July 1, 1990)
STDN 345 Dance Techniques: Ethnic

*Taught in Spanish

College Writing Requirement

Written work is an important part of the College curriculum because writing offers students the opportunity to think deeply and searchingly about their subjects and because skill in written expression is crucial to the welfare of both individuals and society. The College policy regarding written work includes the following requirements and provisions:

1. The document "Standards for Formal Written Work," which is published in this catalog and available from all academic departments, outlines in a general way the College's expectations concerning the content, organization, and format of written assignments. These provisions may be supplemented by departmental writing policy statements or by those of individual instructors.
2. As part of the General Education Requirement, each student must satisfy the communication requirement in writing, usually by taking Freshman Composition.
3. Writing is an important part of course requirements throughout the College (minimum: 1,500 to 2,000 words per course). This work may take such forms as essay examinations, research papers, laboratory reports, critical essays, and so forth.
4. All students must satisfy a graduation requirement in writing. Each department must evaluate the writing ability of its majors by means of a required course (or choice of courses) with substantial writing assignments. Normally this course should be taken in the junior year. Students with serious writing problems will be referred to the Writing Workshop and may not graduate until those problems have been eliminated. Students should consult their College academic advisor or major department chairperson regarding this course and other aspects of the department's writing policy. See list below.
5. The Writing Workshop (Partridge Hall, Room 313) offers consultation and tutorial help to all students with writing problems. There is no charge for this service.

Courses Satisfying the Graduation Requirement in Writing

Accounting, Law and Taxation
FINQ 463 Administrative Research Methodology and Analysis

Anthropology
ANTH 203 Anthropological Linguistics

Biology
BIOL 414 Genetics

Business Education and Office Systems Administration
Accounting and General Business Education
Comprehensive Business Education
Secretarial and General Business Education
Office Systems Administration
BEOS 320 Business Communications

Distributive Education and General Business Education
Retail Merchandising and Management
DIST 307 Retail Store Merchandising and Management

Chemistry
CHEM 343 Experimental Physical Chemistry
CHEM 495 The Chemical Literature

Classics
GNHU 281 Greek Civilization

Latin
LATN 201 Latin Literature of the Republic
LATN 202 Latin Literature of the Golden Age
LATN 203 Latin Literature of the Silver Age
LATN 204 Latin Literature of the Middle Ages

Communication Sciences and Disorders
CS&D 201 Perspectives on Communication

Economics
BEOS 320 Business Communications

English
ENGL 226 Literature of the American Renaissance
ENGL 234 American Drama
ENGL 238 Afro-American Writers
ENGL 240 English Literature I: Beginnings to 1660
ENGL 241 English Literature II: 1660 to Present
ENGL 247 The Augustan Age
ENGL 248 From Sensibility to Romanticism
ENGL 254 English Drama: Beginnings to 1642
ENGL 256 English Novel to 1900
ENGL 324 American Poetry to 1940
ENGL 325 American Poetry: World War II to Present
ENGL 326 Early American Literature
ENGL 336 American Literary Realism
ENGL 337 Modern American Fiction
ENGL 338 Contemporary American Fiction
ENGL 343 Milton
ENGL 344 Chaucer
ENGL 345 Middle English Literature
ENGL 346 19th Century English Romantic Literature
ENGL 347 Victorian Prose and Poetry
ENGL 348 Renaissance Literature
ENGL 353 Shakespeare: Comedies-Histories
ENGL 354 Shakespeare: Tragedies-Romances
ENGL 401 Old English Language and Literature
ENGL 444 17th Century English Poetry
ENGL 446 Irish Renaissance Period Literature
ENGL 455 Restoration and 18th Century Drama
ENGL 456 20th Century English Novel

Environmental, Urban and Geographic Studies
EUGS 309 Research Methods
EUGS 310 Quantitative Methods in Geography and Urban Studies

Finance and Quantitative Methods
FINQ 463 Administrative Research Methodology and Analysis

Fine Arts
ARHS 105 Art and Civilization I
ARHS 106 Art and Civilization II

French
FREN 350 Translation I
FREN 351 Translation II
FREN 452 Translation III

General Humanities
GNHU 201 General Humanities I (to 1400)
GNHU 202 General Humanities II (from 1400)

German and Russian
GERM 352 German Civilization II

Health Professions

Health Education
HLTH 315 Community Health
HLTH 330 Foundations of Health Education

Allied Health Services
HLTH 315 Community Health
HLTH 455 Core Concepts in the Delivery of Health Care

Physical Education and Health (Dual Certification)
HLTH 315 Community Health

History
HIST 100 The Study of History

Home Economics
HEMG 270 Individual Management: Theories and Strategies

Linguistics
LNGN 300 Syntax and Semantics I
LNGN 330 Phonetics and Phonology

Management
MGMT 316 Human Resource Management

Marketing
MKTG 442 Marketing Research

Mathematics and Computer Science
Mathematics
MATH 335 Elements of Linear Algebra

Computer Science
COMP 287 Data Structures

Music
MUHS 307 Music History I

Philosophy and Religion

Philosophy
PHIL 331 Ancient Philosophy
PHIL 333 Descartes to Kant

Religious Studies
RELG 401 Philosophical Backgrounds of Western Religion I
RELG 403 Philosophical Backgrounds of Western Religion II

Physical Education, Recreation and Leisure Studies
Physical Education
PEMJ 100 Orientation to the Physical Education Profession
PEMJ 352 Development and Philosophy of Physical Education
Recreation and Leisure Studies
PERL 124 Introduction to Recreation and Leisure Studies
PERL 322 History and Philosophy of Leisure, Play and Recreation

Physics and Geoscience
Geoscience
GEOS 434 Stratigraphy
GEOS 444 Petrology
GEOS 457 Meteorology

Physics
PHYS 280 Astronomy
PHYS 310 Advanced Mechanics
PHYS 350 Optics
PHYS 462 Nuclear Physics

Political Science
POLS 201 Comparative Politics

Psychology
PSYC 301 Experimental Psychology

Community Psychology
PCOM 387 Methods in Evaluation Research

Sociology
Current Majors:
SOCI 300 Externship in Sociology
SOCI 410 Social Action Practicum

Beginning with Fall 1985 Freshmen and Fall 1986 Transfer Student
SOCI 201 Foundations of Sociological Inquiry

Spanish and Italian
Spanish
SPAN 142 Spanish Grammar and Composition II
SPAN 350 Translating I
SPAN 351 Translating II
SPAN 352 Practicum in Translating

Italian
ITAL 142 Grammar and Composition II

Speech and Theatre (Broadcasting, Speech Communication, Dance and Theatre, effective July 1, 1990)
Broadcasting
STBD 140 Writing for Broadcasting Media

B.F.A. Dance
STDN 315 Dance History: Primitive to 1850
STDN 316 Dance History: 1850 to Present

B.F.A. Acting/Directing, Design/Technical Theatre; B.A. Theatre Teacher Certification
STTH 208 Play Script Interpretation
STTH 210 Theatre History: Classical to Elizabethan
STTH 211 Theatre History: Restoration to Modern

Communication Studies
STSP 374 Group Processes
STSP 388 Seminar in Public Relations

Technology

Non-Teacher Education
INDS 461 Management and Production

Teacher Education
ISED 362 Principles and Methods of Teaching Industrial Education

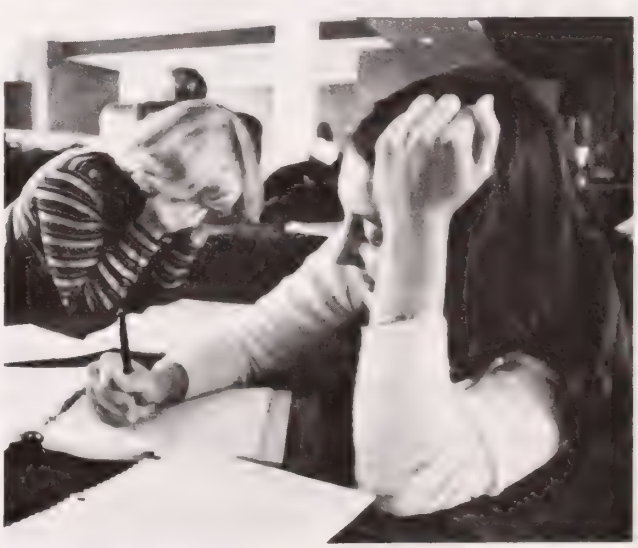
Toxicology
TOXI 311 Principles of Toxicology II
BIOL 414 Genetics

Basic Skills Requirement

1. All students must demonstrate proficiencies in writing, reading, mathematics, and speech which are compatible with the successful performance of college level work. The MSC Basic Skills Requirement provides for the demonstration of such proficiencies through a program of skills assessment and academic development.
2. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State College will be assigned a test date, and registration will not be completed for entering freshman students until the Basic Skills test scores are in. That is, no entering students may expect to receive a first semester class schedule until he or she has taken the NJCBSPT or had the NJCBSPT scores transferred to the MSC Basic Skills Office from a college previously attended. Transfer students may be required to present verification of upper class standing to the Basic Skills Office prior to receiving a class schedule.
3. The Basic Skills requirement in Reading, Writing, and Mathematics may be fulfilled by achieving satisfactory scores on the appropriate sections of the NJCBSPT.
4. Students receiving low scores on the various sections of the NJCBSPT will have credits added to the number of semester hours required to graduate. Developmental courses in reading, writing and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT.
5. Students are expected to take required developmental courses during their first semester at MSC and *must* satisfactorily complete these courses within the first year of enrollment (full-time students) or within two years of enrollment (part-time students). No student may withdraw from a developmental course, and any student will be dismissed from MSC who does not satisfactorily complete the required developmental course(s).
6. Since the Mathematics Department has Basic Skills prerequisites for all of its courses, students will not receive credit for any mathematics course if the Basic Skills requirement has not been satisfied.
7. The MSC Basic Skills requirement in Speech must be fulfilled within a student's first 58 semester hour credits by:
   A. Satisfactory completion of the Speech Communication Requirement.

   OR

   B. Successful Speech Placement/Waiver evaluation:
   Application for this examination can be made in early October or early February at the Department of Speech and Theatre. Passing the examination *does not* grant semester hour credit, only satisfaction of the Speech requirement.
8. All questions about Basic Skills should be addressed to the Basic Skills Office, Richardson Hall, Room 207, telephone (201-893-4476).



General Education Requirement

Appendix of Courses

The following courses fulfill the General Education Requirement for full time freshmen and part-time students who began their studies at Montclair State College in Summer/Fall, 1983 or thereafter, and transfer students entering the College in Fall 1985. Refer to the Legend of Departments/Subject Areas and Undergraduate Course Number Codes at the end of this section in order to determine which department offers the course.

GENERAL EDUCATION REQUIREMENT COURSES

COMMUNICATION

Writing

English
ENGL 105 Freshman Composition

Honors Program
HONP 100 Honors Seminar: Great Books and Ideas, Part I**
HONP 101 Honors Seminar: Great Books and Ideas, Part II**

Reading

English
ENGL 106 Introduction to Literature

Honors Program
HONP 100 Honors Seminar: Great Books and Ideas, Part I**
HONP 101 Honors Seminar: Great Books and Ideas, Part II**

Reading and Educational Media
READ 105 Reading: Communication Through Text

Speaking/Listening

Communication Sciences and Disorders
CS&D 101 Fundamentals of Speech: Communications Requirement

Speech and Theatre (Broadcasting, Speech Communication, Dance and Theatre, effective July 1, 1990)
STSP 101 Fundamentals of Speech: Communications Requirement

CONTEMPORARY ISSUES

Anthropology
ANTH 206 Human Variation*
ANTH 214 Anthropology of Conflict and Violence
ANTH 311 Anthropology of American Subcultures*†

Classics
GNHU 176 Italians and Italian-Americans: Comparative Studies

Educational Foundations
EDFD 264 Sexism in American Education*
EDFD 477 Ethnic/Racial Groups and the Schools in America

English
ENGL 175 The Vietnam War Experience and American Culture

Environmental, Urban and Geographic Studies
EUGS 109 The Human Environment

Health Professions
HLTH 213 Perspectives on Drugs

Home Economics
HECO 205 Women in Contemporary Society*
HECO 344 Challenge of Aging
HEDN 260 Housing and Society
HEFM 445 The Inner City Family*†
HEMG 270 Individual Management: Theories and Strategies
HENU 153 Food and People

Honors Program
HONP 102 Honors Seminar: Twentieth Century Civilization, Part I**

Linguistics
LNGN 250 Language of Propaganda

Management
MGMT 363 Business and Society

Philosophy and Religion
PHIL 225 Religion and Social Change

Physical Education, Recreation and Leisure Studies
PEMJ 227 Social Problems in Sports

Physics and Geoscience
GEOS 221 Conservation of National Resources

Psychology
PCOM 245 Introduction to Community Psychology
PSYC 102 Women's Worlds*
PSYC 109 The Human Environment
PSYC 231 Psychology of Aggression*

Reading and Educational Media
MEDI 355 Media in Intercultural Communication*†

Sociology
SOCI 113 Social Problems
SOCI 202 Racial and Ethnic Relations*†
SOCI 209 Sociology of Poverty and Welfare
SOCI 211 Sociology of Health and Illness
SOCI 212 Sociology of Social and Technical Change
SOCI 214 Sociology of Conflict and Violence
SOCI 216 Sociology of Food and Population
SOCI 218 Sociology of Population

Technology
INDS 249 Alternate Energy
ISED 101 Technology and Culture: Past, Present and Future

Women's Studies
WMST 102 Women's Worlds*

FINE AND PERFORMING ARTS: ART APPRECIATION

Classics
GNHU 208 Introduction to the Film
GNHU 288 Music and Art in French Civilization

English
ENFL 208 Introduction to the Film
ENID 208 Introduction to the Film

Fine Arts
ARFL 299 History of Cinema as Art
ARGN 100 Introduction to the Visual Arts
ARHS 105 Art and Civilization I
ARHS 106 Art and Civilization II
ARHS 108 Women in Art
ARHS 215 Ancient Art
ARHS 217 Selected Masterpieces of World Art
ARHS 275 Afro-American Art*
ARHS 327 History of Oriental Art
ARHS 328 Survey of Greek Art
ARHS 450 Modern Architecture
ARPR 230 History of the Print
ARPT 215 Art Forum

Honors Program
HONP 201 Honors Seminar in the Foundations of the Creative Process**

Music
MUGN 100 Introduction to Music
MUGN 160 Introduction to Music in World Cultures
MUGN 209 Introduction to Jazz*
MUGN 236 The American Musical
MUGN 237 Survey of Music Theatre
MUGN 238 Orchestral Literature
MUGN 240 Music of the Romantic Period

Speech and Theatre (Broadcasting, Speech Communication, Dance and Theatre, effective July 1, 1990)
STDN 105 Dance Appreciation
STDN 315 Dance History: Primitive to 1850
STDN 316 Dance History: 1850 to Present
STTH 100 Introduction to the Theatrical Medium

FOREIGN LANGUAGE

Classics
GREK 101 Beginning Greek I
GREK 112 Beginning Greek II
GREK 121 Intermediate Greek I
GREK 132 Intermediate Greek II
LATN 101 Beginning Latin I
LATN 112 Beginning Latin II
LATN 121 Intermediate Latin I
LATN 132 Intermediate Latin II
LATN 201 Latin Literature of the Republic
LATN 202 Latin Literature of the Golden Age
LATN 203 Latin Literature of the Silver Age

French
FREN 101 Beginning French I
FREN 112 Beginning French II
FREN 121 Intermediate French I

* *Meets Minorities Culture Requirement.*
† *Meets Human and Intercultural Relations Requirement for teacher certification.*
** *For honors program students only.*
(1) *Recommended for students with strong math/science background.*

FREN 132 Intermediate French II
FREN 145 Introduction to French Culture
FREN 146 Readings in French Literature

German and Russian
GERM 101 Beginning German I
GERM 103 Beginning German I (Reading)
GERM 112 Beginning German II
GERM 114 Beginning German II (Reading)
GERM 121 Intermediate German I
GERM 123 Intermediate German I (Reading)
GERM 132 Intermediate German II
GERM 134 Intermediate German II (Reading)
GERM 151 Advanced German I
GERM 152 Advanced German II
GERM 251 Introduction to German Literature I
GERM 252 Introduction to German Literature II
GERM 351 German Civilization I
GERM 352 German Civilization II
RUSS 101 Beginning Russian I
RUSS 112 Beginning Russian II
RUSS 121 Intermediate Russian I
RUSS 132 Intermediate Russian II
RUSS 141 Advanced Russian I
RUSS 152 Advanced Russian II

Linguistics
CHIN 101 Beginning Chinese I
CHIN 112 Beginning Chinese II
CHIN 121 Intermediate Chinese I
CHIN 132 Intermediate Chinese II
LNGN 220 Structure of American English

Spanish and Italian
ITAL 101 Italian I
ITAL 102 Italian II
ITAL 103 Italian III
ITAL 104 Italian IV
ITAL 240 Studies in Italian Literature: Origins to 18th Century
ITAL 241 Italian Literature: 18th through 20th Centuries
ITAL 260 Italian Cultural History
PORT 101 Portuguese I
PORT 102 Portuguese II
PORT 103 Portuguese III
PORT 104 Portuguese IV
PORT 160 Masterpieces of Portuguese Literature
PORT 162 Masterpieces of Brazilian Literature
PORT 260 Luso-Brazilian Culture
SPAN 101 Spanish I
SPAN 102 Spanish II
SPAN 103 Spanish III
SPAN 104 Spanish IV
SPAN 120 Comprehensive Spanish I and II
SPAN 140 Comprehensive Spanish III and IV
SPAN 145 Readings in Hispanic Literature
SPAN 151 Masterpieces of Spanish Literature I
SPAN 152 Masterpieces of Spanish Literature II
SPAN 161 Masterpieces of Spanish-American Literature I
SPAN 162 Masterpieces of Spanish-American Literature II
SPAN 260 Spanish Cultural History
SPAN 270 Spanish-American Cultural History*
SPAN 280 Cuban Cultural History*

HUMANITIES

World Literature

English
ENLT 176 World Literature: The Coming of Age Theme
ENLT 177 World Literature: Voices of Tradition and Challenge

General Humanities

Classics
GNHU 201 General Humanities I
GNHU 202 General Humanities II
GNHU 285 Mythology

Fine Arts
ARHS 250 Modern Philosophies of Art

Philosophy/Religion

Educational Foundations
EDFD 220 Philosophical Orientation to Education

Philosophy and Religion
PHIL 100 Introduction to Philosophy
PHIL 102 Ethics
PHIL 104 Social and Political Philosophy
PHIL 106 Logic
RELG 100 Religions of the World
RELG 101 Introduction to Religion
RELG 103 Religion and Moral Issues
RELG 221 Religion and Culture
RELG 269 Death and Dying: Religious Perspectives

MATHEMATICS

Computer Science

Mathematics and Computer Science
CMPT 107 Computers and Society
CMPT 108 Computers and Programming
CMPT 109 Introduction to Computer Applications
CMPT 183 Foundations of Computer Science I (1)

Mathematics

Mathematics and Computer Science
MATH 103 The Development of Mathematics
MATH 109 Statistics
MATH 116 Calculus A (1)
MATH 122 Calculus I (1)
MATH 221 Calculus II (1)

NATURAL/PHYSICAL SCIENCE

Laboratory or Non-Laboratory Science

Biology
BIOL 100 Biological Sciences
BIOL 103 Basic Biology I
BIOL 104 Basic Biology II
BIOL 110 The Biology of Human Life
BIOL 130 General Zoology I (1)
BIOL 131 General Zoology II (1)
BIOL 140 Biology of the Cell (1)

Chemistry
CHEM 100 Introductory Chemistry
CHEM 120 General Chemistry I (1)

Honors Program
HONP 210 Honors Seminar in Science I**
HONP 211 Honors Seminar in Science II**

Physics and Geoscience
GEGN 100 Concepts in Science
GEGN 105 Science of Sound
GEGN 107 Planet Earth
GEOS 112 Physical Geology
GEOS 114 Historical Geology
GEOS 125 Earth and the Environment
PHYS 191 General Physics I (1)
PHYS 192 General Physics II (1)
PHYS 193 College Physics I (1)
PHYS 194 College Physics II (1)

Laboratory Science Only

Biology
BIOL 121 The Plant Kingdom (1)

Non-Laboratory Science Only

Anthropology
ANTH 101 Physical Anthropology

Biology
BIOL 107 Biology for Survival
BIOL 109 Introductory Ecology: The Living World
BIOL 215 Human Heredity

Environmental, Urban and Geographic Studies
EUGS 100 Principles of Geography

Health Professions
HLTH 240 Foundations of Environmental Health

Home Economics
HENU 182 Nutrition

* *Meets Minorities Culture Requirement.*
† *Meets Human and Intercultural Relations Requirement for teacher certification.*
** *For honors program students only.*
(1) *Recommended for students with strong math/science background.*

Physics and Geoscience
GEGN 104 History of Science
GEGN 106 Science and Society
GEGN 108 Principles of Geology
GEGN 110 Natural Disasters
GEGN 157 Understanding the Weather
GEGN 162 General Oceanography
GEGN 180 Descriptive Astronomy

PHYSICAL EDUCATION

Physical Education, Recreation and Leisure Studies
PEGN 200 Beginning Swimming
PEGN 201 Springboard Diving
PEGN 202 Badminton
PEGN 203 Golf
PEGN 240 Platform Tennis
PEGN 242 Racquetball
PEGN 250 Intermediate Swimming
PEGN 251 Aerobic Activities
PEGN 252 Archery
PEGN 253 Gymnastics
PEGN 257 Weight Training and Conditioning
PEGN 258 Beginning Tennis
PEGN 260 Beginning Riding
PEGN 261 Fencing
PEGN 262 Volleyball
PEGN 263 Jogging
PEGN 264 Soccer
PEGN 265 Figure Skating
PEGN 266 Skiing
PEGN 267 Advanced Swimming
PEGN 268 Bicycling
PEGN 270 Folk and Square Dance
PEGN 271 Social Dance
PEGN 272 Bowling
PEGN 274 Scuba Diving
PEGN 275 Beginning Karate
PEGN 278 Yoga

SOCIAL SCIENCE

American/European History
Classics
GNHU 281 Greek Civilization
GNHU 282 Roman Civilization
History
HIST 103 Foundations of Western Civilization
HIST 105 Emergence of European Civilization 1500-1914
HIST 106 Contemporary Europe, 1914-Present
HIST 110 Introduction to American Civilization
HIST 111 Contemporary American Issues in Historical Perspectives
HIST 117 History of the United States To 1876
HIST 118 History of the United States Since 1876
HIST 281 Greek Civilization
HIST 282 Roman Civilization
Technology
INDS 248 Historical Perspectives of American Industries-Field Study

Non-Western Cultural Perspectives
Anthropology
ANTH 301 Peoples of Africa*
ANTH 302 Native Latin Americans*
ANTH 305 Native North Americans*
ANTH 307 Ethnology of Southeast Asia and Oceania*
ANTH 310 Cultures of the Middle East
ANTH 312 Peasant Culture
ANTH 431 Development of Indian Character and Culture
ANTH 432 Development of Japanese Character and Culture
Classics
GNHU 293 Russian Culture and Civilization
Economics
ECON 303 Economic Growth and Development
Environmental, Urban and Geographic Studies
EUGS 412 Geography of the Sub-Sahara Africa
EUGS 413 Geography of the Middle East
Fine Arts
ARHS 220 Art in Non-Western Societies*
German and Russian
GRIN 293 Russian Culture and Civilization
History
HIST 108 Introduction to African Civilization*
HIST 109 Introduction to Islamic Civilization
HIST 114 Early Latin American Civilization*
HIST 131 Introduction to Indian Civilization*
HIST 132 Introduction to Chinese Civilization*
HIST 223 Communist Revolution in China
HIST 431 Development of Indian Character and Culture
HIST 432 Development of Japanese Character and Culture
Philosophy and Religion
RELG 210 Religion of the North American Indians*
Political Science
POLS 204 Government and Politics of Africa
POLS 206 Government and Politics of China-Japan
Sociology
SOCI 220 Sociology of Rich and Poor Nations

Survey Courses
Anthropology
ANTH 100 Cultural Anthropology*
ANTH 203 Anthropological Linguistics
ANTH 205 Prehistoric Archaeology
Economics
ECON 100 Introduction to Economics
ECON 101 Principles of Economics: Macro
ECON 102 Principles of Economics: Micro
Environmental, Urban and Geographic Studies
EUGS 101 Human Geography
Honors Program
HONP 203 Honors Seminar on Social Analysis**
Linguistics
LNGN 210 Introduction to General Linguistics
Political Science
POLS 201 Comparative Politics
Psychology
PSYC 101 General Psychology I: Growth and Development
PSYC 246 Psychology of the Black Experience
Sociology
SOCI 100 The Sociological Perspective

Topic Courses
Anthropology
ANTH 200 Urban Anthropology*†
ANTH 202 Cultural Change and Modernization
ANTH 207 American Folk Culture
Business Education and Office Systems Administration
BSED 101 Contemporary Business
Classics
GNHU 181 Introduction to Classical Archaeology
Economics
ECON 215 Economics of Social Problems*†
ECON 403 Comparative Economic Systems
Educational Foundations
EDFD 440 Sociological Foundations of Education
Environmental, Urban and Geographic Studies
EUGS 102 World Geography
EUGS 206 Introduction to American Urban Studies*
EUGS 308 Land and Life in Latin America*
EUGS 313 Urban Geography*†
Home Economics
HEFM 140 Family in Society
HEMG 231 The Family in the Economic System
Honors Program
HONP 103 Honors Seminar: Twentieth Century Civilization, Part II**
Linguistics
LNGN 230 Language in Society
LNGN 245 Language and Culture
LNGN 255 Women, Men and Language*

* *Meets Minorities Culture Requirement*
† *Meets Human and Intercultural Relations Requirement for teacher certification.*
** *For honors program students only.*
(1) *Recommended for students with strong math/science background.*

Political Science
POLS 100 Introduction to Politics
POLS 102 Institutions of American Government
POLS 103 American Political Process
Psychology
PSYC 105 The Psychological Study of Social Issues
PSYC 200 Educational Psychology
PSYC 201 Child Psychology
PSYC 202 Adolescent Psychology
PSYC 225 Psychology of Adjustment
PSYC 265 Psychology of Women*
Sociology
SOCI 101 Criminology
SOCI 204 Sociology of the Family
SOCI 207 Social Structure of American Society

ELECTIVES

The following may be used to satisfy the General Education Elective Requirement:

1. GER approved courses (other than Physical Education)
2. General introductory courses at the 100-level or 200-level in any department in the schools of Fine and Performing Arts, Humanities and Social Sciences, and Mathematical and Natural Sciences.
3. Courses in the areas of Creative Expression and/or Personal/Professional Issues.

Note: General Education Electives must be taken outside the student's major.

Creative Expression
Fine Arts
ARFL 218 Film Making I
ARFL 219 Film Making II
ARFL 221 Video-Television as an Art Form I
ARGN 103 Visual Arts Studio I
ARGN 104 Visual Arts Studio II
ARGN 107 Drawing I
ARGN 125 Multi-Media I
ARGN 215 Drawing II
ARGN 220 Life Drawing I
ARGN 225 Multi-Media II
ARGN 280 Life Drawing II
ARGN 311 Intermediate Papermaking I
ARMT 200 Leather I
ARMT 202 Ceramics, Pottery and Sculpture I
ARMT 203 Ceramics, Pottery and Sculpture II
ARMT 204 Fibers and Fabrics I
ARMT 205 Fibers and Fabrics II
ARMT 206 Leather II
ARMT 207 Surface Design I
ARMT 210 Textile Design I
ARMT 225 Surface Design II
ARPH 213 Photography I: A Contemporary Art Form
ARPH 214 Intermediate Photography: A Contemporary Art Form
ARPH 231 Humorous and Satirical Illustration for Publication
ARPR 120 Introduction to Printmaking
ARPR 200 Introduction to Etching and Relief Printing
ARPR 202 Introduction to Lithography
ARPT 200 Painting I
ARPT 201 Painting II
ARPT 211 Sculpture I
ARPT 212 Sculpture II
ARPT 244 Sculpture: Modeling and Casting I
ARPT 245 Sculpture: Carving I
ARPT 246 Sculpture: Metal Casting I
ARPT 247 Sculpture: Fabrication I
ARPT 248 Sculpture: Welding-Brazing I
ARPT 249 Sculpture: Clay I
ARPT 250 Figurative Painting
ARPT 254 Sculpture: Modeling and Casting II
ARPT 255 Sculpture: Carving II
ARPT 256 Sculpture: Metal Casting II
ARPT 257 Sculpture: Fabrication II
ARPT 258 Sculpture: Welding-Brazing II
ARPT 259 Sculpture: Clay II
Music
MUCP 150 Fundamentals of Music for the Non-Major
MUGN 250 Sounds of the City
MUPR 100 Class Piano for Non-Music Majors
MUPR 103 Voice Class for the Non-Music Major
MUPR 105 Modern Guitar Workshop
Speech and Theatre (Broadcasting, Speech Communication, Dance and Theatre, effective, July 1, 1990)
STSP 160 Oral Interpretation of Literature
STSP 363 Reader's Theatre
STTH 105 Acting I - Non B.F.A.

Personal/Professional Issues
Business Education and Office Systems Administration
BSED 309 Personal Finance
Counseling, Human Development and Educational Leadership
COUN 330 Dynamics of One-to-One Communication
COUN 331 Group Dynamics
COUN 432 Personal Values
COUN 482 Career Consciousness
Fine Arts
ARTH 250 Introduction to Art Therapy
ARTH 310 Group Art Therapy and Creativity Development
Health Professions
HLTH 101 Person Health Issues
HLTH 220 Mental Health
HLTH 290 Human Sexuality
Home Economics
HECO 141 Interpersonal Relations
HEFM 320 Parenting Skills and Resources
HETX 122 Clothing and Culture: A Multidisciplinary Study
Legal Studies
LSLW 200 Introduction to Law and Legal Professions
Psychology
PSYC 103 Freshman Seminar
Sociology
SOCI 206 Individual and Society

* *Meets Minorities Culture Requirement.*
† *Meets Human and Intercultural Relations Requirement for teacher certification.*
** *For honors program students only.*
(1) *Recommended for students with strong math/science background.*

LEGEND OF ALPHA COURSE CODES

School of Business Administration

Accounting, Law and Taxation
- Accounting ..... ACCT
- Business Law ..... BSLW
- Business/General ..... BUGL

Business Education and Office Systems Administration
- Business Education ..... BSED
- Business Education and Office Systems Administration ..... BEOS
- Distributive Education ..... DIST

Economics
- Business/Economics ..... BSEC
- Economics ..... ECON

Finance and Quantitative Methods
- Finance ..... FINC
- Finance/Quantitative ..... FINQ

Management
- Management ..... MGMT

Marketing
- Marketing ..... MKTG
- Marketing/Business ..... MKAD

School of Fine and Performing Arts

Fine Arts
- Fine Arts/Education ..... ARED
- Fine Arts/Exhibition ..... AREX
- Fine Arts/Film ..... ARFL
- Fine Arts/General ..... ARGN
- Fine Arts/History ..... ARHS
- Fine Arts/Management ..... ARMG
- Fine Arts/Ceramic/Metals/Fibers ..... ARMT
- Fine Arts/Photography ..... ARPH
- Fine Arts/Printmaking ..... ARPR
- Fine Arts/Painting ..... ARPT
- Fine Arts/Therapy ..... ARTH
- Fine Arts/Environmental Design ..... AREN

Music
- Music/Education ..... MUED
- Music/General ..... MUGN
- Music/History ..... MUHS
- Music/Major Instrument ..... MMIN
- Music/Management ..... MUMG
- Music/Performance ..... MUPR
- Music/Primary Instrument ..... MSIN
- Music/Secondary Instrument ..... MSSN
- Music/Theory/Composition ..... MUCP
- Music/Therapy ..... MUTH

Speech and Theatre (Broadcasting, Speech Communication, Dance and Theatre, effective July 1, 1990)
- Speech and Theatre/Broadcasting ..... STBD
- Speech and Theatre/Communication ..... STSP
- Speech and Theatre/Dance ..... STDN
- Speech and Theatre/Management ..... STMG
- Speech and Theatre/Theatre ..... STTH

School of Humanities and Social Sciences

Anthropology
- Anthropology ..... ANTH
- Anthropology/Practical ..... PRAN

Classics
- General Humanities ..... GNHU
- Classics/Greek ..... GREK
- Classics/Latin ..... LATN

Communication Sciences and Disorders
- Communication Sciences and Disorders ..... CS&D

English
- English ..... ENGL
- English/Film ..... ENFL
- English/Grammar ..... ENGM
- English/Interdisciplinary ..... ENID
- English/Literature ..... ENLT
- English/Writing ..... ENWR

Environmental, Urban and Geographic Studies
- Environmental Studies ..... EUGS
- Urban and Geographic Studies ..... ENVR
- Geography/Latin American ..... GELA

French
- French ..... FREN
- French/Interdisciplinary ..... FRIN

German and Russian
- German/Slavic ..... GERM
- German/Interdisciplinary ..... GRIN
- German/Russian ..... RUSS

History
- History ..... HIST
- Social Science ..... SOSC

Linguistics
- Linguistics ..... LNGN
- Linguistics/Chinese ..... CHIN
- Linguistics/ESOL ..... ESOL

Legal Studies
- Legal Studies/Law ..... LSLW
- Legal Studies/Paralegal ..... LSPA
- Legal Studies/Paralegal ..... LSPR

Philosophy and Religion
- Philosophy ..... PHIL
- Religion ..... RELG

Political Science
- Political Science ..... POLS

Psychology
- Psychology ..... PSYC
- Psychology/Community ..... PCOM

Sociology
- Sociology ..... SOCI

Spanish and Italian
- Spanish ..... SPAN
- Spanish/Italian Interdisciplinary ..... SPIN
- Italian ..... ITAL
- Portuguese ..... PORT

School of Mathematical and Natural Sciences

Biology
- Biology ..... BIOL
- Biology/Cell Culture ..... BICL
- Biology/Marine Sciences ..... BIMS
- Biology/Toxicology ..... TOXI

Chemistry
- Chemistry ..... CHEM

Mathematics and Computer Science
- Mathematics ..... MATH
- Computer Science ..... CMPT

Physics and Geoscience
- Geoscience ..... GEOS
- Geoscience General ..... GEGN
- Physics/Geoscience ..... PHYS
- Physics/Geoscience Education ..... PHED
- Physics/Geoscience - Marine Science ..... PHMS

School of Professional Studies

Continuing Education
- Adult Education ..... ADED

Counseling, Human Development and Educational Leadership
- Counseling, Human Development and Educational Leadership ..... COUN

Curriculum and Teaching
- Curriculum and Teaching ..... CURR

Educational Foundations
- Educational Foundations ..... EDFD
- Educational Research ..... ELRS

Environmental Education - New Jersey School of Conservation
- Conservation/Field Studies ..... CNFS

Health Professions
- Health Professions ..... HLTH

Home Economics
- Home Economics ..... HECO
- Home Economics/Design ..... HEDN
- Home Economics/Education ..... HEED
- Home Economics/Family ..... HEFM
- Home Economics/Foods ..... HEFD
- Home Economics/Management ..... HEMG
- Home Economics/Nutrition ..... HENU
- Home Economics/Textile ..... HETX

Physical Education, Recreation and Leisure Studies
- Physical Education/Major ..... PEMJ
- Physical Education/Non-major ..... PEGN
- Recreation ..... PERL

Reading and Educational Media
- Educational Media ..... MEDI
- Reading ..... READ

Technology
- Industrial Studies ..... ISED
- Industrial Studies/Coop Education ..... ISCP
- Industrial Studies/Technology ..... INDS
- Industrial Studies/Vocational ..... ISVC

Special Programs
- Cooperative Education ..... COED
- Honors Program, College ..... HONP
- International Studies ..... INTL
- Reserve Officers Training Corps (ROTC) ..... ROTC
- Women's Studies ..... WMST



ACADEMIC PROGRAMS

by departments

Accounting, Law and Taxation

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Lee Primiano

Increased government regulation and business expansion demand added expertise of today's accountant. The department's accounting program prepares students for careers in public and private accounting.

The Certified Public Accountant (CPA) is concerned with public accounting. CPA's render a variety of services for their clients: conducting independent audits and providing accounting, tax, and a variety of management advisory services. The program meets all educational requirements for admission to the CPA examination.

In the private sector, graduates are prepared primarily for industrial accounting leadership positions. The program emphasizes the structure, design, and analysis of accounting systems in the financial reporting and management decision processes.

The accounting courses integrate the study of theory and current practice with research and computer applications.

A Bachelor of Science degree is offered in Business Administration with specializations in professional accounting and managerial accounting.

Business Administration Major

Required Courses

			Semester Hours
ACCT	201	Fundamentals of Accounting I	3
ACCT	202	Fundamentals of Accounting II	3
BSLW	261	Legal Environment of Business I	3
FINQ	270	Statistics for Business	4
MGMT	311	Management Process and Organizational Behavior	4
FINC	321	Fundamentals of Finance	3
MKTG	340	Introduction to Marketing	3
FINQ	372	Management Science	4
MGMT	439	Business Policy	3
FINQ	463	Administrative Research Methodology and Analysis	3

Collateral Courses

MATH	113	Mathematics for Business I	3
MATH	114	Mathematics for Business II	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3
Two courses from two of the following departments: Anthropology, Psychology, Sociology			6

Specializations within the Major

Professional Accounting

Required Courses

			Semester Hours
ACCT	301	Intermediate Accounting I	4
ACCT	302	Intermediate Accounting II	4
ACCT	303	Auditing Theory and Practice	3
ACCT	307	Cost Accounting and Control I	3
ACCT	403	Tax Accounting	3

Accounting Elective

Select 3 semester hours from the appropriate list to be obtained from the department 3

Business Administration Electives

Select 6 semester hours from the appropriate list to be obtained from the department 6

Managerial Accounting

Required Courses

ACCT	301	Intermediate Accounting I	4
ACCT	302	Intermediate Accounting II	4
ACCT	307	Cost Accounting and Control I	3
ACCT	308	Cost Accounting II	3

Accounting Electives

Select 6 semester hours from the appropriate list to be obtained from the department 6

Business Administration Electives

Select 6 semester hours from the appropriate list to be obtained from the department 6

Courses of Instruction

ACCT 200
ACCOUNTING FOR NON-BUSINESS MAJORS 3.0
This is a basic course in the concepts and uses of financial data as it relates to business decision making. (Not for business majors.)

ACCT 201
FUNDAMENTALS OF ACCOUNTING I 3.0
Mastery of the fundamental elements of accounting, journalizing, posting, taking a trial balance, preparing financial statements and closing books; special journals and controlling accounts.
Prerequisites: Math 113, 114; ECON 101, 102.

ACCT 202
FUNDAMENTALS OF ACCOUNTING II 3.0
Builds on financial accounting. Corporation accounting, bonds payable, investments, manufacturing costs, cash flow analysis and profit-volume relationships.
Prerequisite: ACCT 201.

ACCT 301
INTERMEDIATE ACCOUNTING I 4.0
The preparation of advanced accounting statements, valuation of current and fixed assets, intangible assets, current liabilities and investments.
Prerequisite: ACCT 202.

ACCT 302
INTERMEDIATE ACCOUNTING II 4.0
A continuation of principles underlying financial statements, long-term liabilities, present value analysis, corporate capital, funds flow and special purpose funds.
Prerequisite: ACCT 301.

ACCT 303
AUDITING THEORY AND PRACTICE 3.0
The conduct of audits of various types; the balance sheet audit; audit working papers; correction of books and preparation of audit reports.
Prerequisite: ACCT 302.

ACCT 307
COST ACCOUNTING AND CONTROL I 3.0
The determination of product costs and elements of cost control applied to basic job order, process and standard cost systems. The nature of manufacturing costs and the use of accounting data in decision-making.
Prerequisite: ACCT 202.

ACCT 308
COST ACCOUNTING AND CONTROL II 3.0
Estimating cost, budgets and cost, standard cost, analysis and control of costs, break-even analysis and differential cost analysis.
Prerequisite: ACCT 307.

ACCT 401
ADVANCED ACCOUNTING 3.0
Accounting problems peculiar to consolidated financial statements, partnership accounts and special sales procedures.
Prerequisite: ACCT 302.

ACCT 403
TAX ACCOUNTING 3.0
A comprehensive picture of the federal tax structure; the determination of net income, credits exemptions and rates for various taxpayers.
Prerequisite: ACCT 202.

ACCT 404
CURRENT TAX PROBLEMS 3.0
Advanced phases of income taxation with particular attention to corporations, partnerships and estates.
Prerequisite: ACCT 403.

ACCT 405
PROFIT PLANNING AND CONTROL 3.0
Budgetary organization, various types of budgets and supplementary schedules, business forecasts of sales and production, and flexible budgets.
Prerequisite: ACCT 307.

ACCT 407
ACCOUNTING SYSTEMS AND DATA PROCESSING 3.0
Analysis of accounting systems and the organization of accounting information for use with manual and automated methods.
Prerequisite: ACCT 202.

ACCT 409
CPA REVIEW 3.0
Advanced accounting problems, current pronouncements on theory, and review of auditing theory and practice in preparation for the CPA examination. (Cannot be used to meet the 24 semester hours of accounting required to sit for the CPA examination in the state of New Jersey.)
Prerequisite: ACCT 303.

BSLW 261
LEGAL ENVIRONMENT OF BUSINESS I 3.0
A study of the legal principles of a governed society and the social forces within such a society. Special attention is accorded to the law of contracts and of agency, employing the uniform commercial code as a basis for interpretation. Case material.

BSLW 262
LEGAL ENVIRONMENT OF BUSINESS II 3.0
An analysis of the law of commercial paper and sales with an introduction to secured transactions. The basic statutory source employed is the uniform commercial code. Case material (recommended for CPA preparation).
Prerequisite: BSLW 261.

BSLW 263
LEGAL ENVIRONMENT OF BUSINESS III 3.0
An analysis of the law of partnerships and corporations including the nature of formation, rights, and duties of parties, and dissolution. The basic statutory sources employed are the uniform partnership act and the model business corporation act; case material.
Prerequisites: BSLW 262, FINC 321.

Anthropology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Bertha B. Quintana

All peoples and all aspects of human life are the subject of anthropology. The discipline stresses objectivity through the study of other peoples; provides insights from the studies that others make of us; and teaches responsibility by applying the results to problems in our rapidly changing, evolving world. The four basic fields: cultural anthropology, archaeology, physical anthropology, and anthropological linguistics are represented in the department. Two programs, a bachelor of arts general anthropology major and a unique five-year combined undergraduate and graduate program in practical anthropology that culminates with the master of arts degree, are offered by the department. Both programs address diverse interests and career objectives of students.

GENERAL ANTHROPOLOGY MAJOR

The general anthropology major, for which a B.A. degree is awarded, prepares students for advanced work in the discipline which can lead to college teaching, museum curatorial work, and/or research, as well as careers in non-academic settings. For students interested in a strong liberal arts background, the general major is an excellent program which can be adapted to varied professional and career goals. An internship component is available to students in the program which provides opportunities to test their acquired knowledge in actual work settings. Additionally, the program can be adapted to meet certification requirements for teaching social studies in New Jersey secondary schools.

Required Courses

	Semester Hours
ANTH 100 Cultural Anthropology	3
ANTH 101 Physical Anthropology	3
ANTH 203 Anthropological Linguistics	3
ANTH 205 Prehistoric Archaeology	3

Electives (Cross-cultural)

Select 9 semester hours from the appropriate list to be obtained from the department.....9

Electives (Theory and Methods)

Select 12 semester hours from the appropriate list to be obtained from the department.....12

Note: Work in supportive areas - e.g., international studies, non-western history, cultural geography, urban studies, social psychology, primitive art, ethno-musicology, the natural sciences, statistics, sociology, linguistics, and foreign language - is strongly recommended and should be discussed with major advisors.

TEACHER CERTIFICATION

(Social Studies)

Students wishing teacher certification must be admitted to the teacher Education program and follow the professional sequence outlined in this catalog. They should consult the faculty advisor for the social studies certificate.

FIVE-YEAR COMBINED UNDERGRADUATE AND GRADUATE PROGRAM IN PRACTICAL ANTHROPOLOGY CULMINATING WITH THE M.A. DEGREE

Program Coordinator: Dr. Kenneth Brook

The five-year combined undergraduate and graduate program in practical anthropology culminating with the M.A. degree provides an integrated and challenging approach to undergraduate and graduate education in anthropology. Its primary objective is to provide students with the knowledge, skills, and experience required to pursue careers in applied anthropology. Its emphasis is on *practice* and the utilization of anthropological knowledge, as well as adherence to the discipline's four-field approach and culture area perspective. Students are instructed in the qualitative and quantitative methodologies used by practicing anthropologists and, as senior/graduate apprentices, acquire valuable field experience in regional public and private agencies where, under faculty guidance and professional supervision, they assume responsibility for completing a significant project. Growing occupational opportunities for practicing anthropologists exist in public interest organizations, market research and consumer affairs, multinational corporations, contract archaeology, international relations, medical and mental health programs, and numerous federal and state agencies. The only program of its type in the northeast, the major has been commended for the balance it achieves between academic integrity and practical concerns.

Required Courses

	Semester Hours
ANTH 100 Cultural Anthropology	3
ANTH 101 Physical Anthropology	3
ANTH 200 Urban Anthropology	3
ANTH 203 Anthropological Linguistics	3
ANTH 205 Prehistoric Archaeology	3
ANTH 320 Contemporary Practical Anthropology	3
ANTH 321 Methods in Anthropological Research and Practice	3
ANTH 531 Regional Problems in Practical Anthropology (Seminar)	3
ANTH 537 Responding to Culture Change	3
ANTH 603 Reading Seminar (Comprehensive Examination)	2

Ethnology Requirement: (2 courses) 6

Topical Anthropology Courses 12

2 Undergraduate Courses
2 Graduate Courses

Field Methods (in Specialty Area) 3

Apprenticeship 13

PRAN 420 Pre-Apprenticeship
PRAN 520 Apprenticeship
PRAN 620 Post-Apprenticeship Treatise

Note: In addition to the foregoing, students are required to complete 6 semester hours in quantitative methodology. The list of courses which meet the methodology, ethnology, topical, and field methods requirements may be obtained from the department. For graduate course descriptions (500 and 600 levels), students are advised to consult the program coordinator.

Courses of Instruction

ANTH 100
CULTURAL ANTHROPOLOGY 3.0
Analysis of transcultural data; basic methodologies, concepts and goals of anthropology; the nature of culture, its role in human experience and its universality. Meets the General Education Requirement—Social Science, Survey Course. Meets the Minorities Culture Requirement.

ANTH 101
PHYSICAL ANTHROPOLOGY 3.0
The biological basis of human evolution including surveys of human paleontology, primatology and human races. The relationship of culture to human development; lectures, field trips and the use of fossil and audio-visual materials. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science.

ANTH 200
URBAN ANTHROPOLOGY 3.0
The dynamics of acculturation; relationships between urban subcultures and the broader urban community; values, personality, behaviors and other aspects of the adjustment of people whose lifestyle sets them apart from the dominant society. Meets the General Education Requirement—Social Science, Topic Course. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

ANTH 202
CULTURAL CHANGE AND MODERNIZATION 3.0
Cultural development, growth, transmission, perpetuation and change. The concept of modernization and its implications for folk and urban culture. Meets the General Education Requirement—Social Science, Topic Course.

ANTH 203
ANTHROPOLOGICAL LINGUISTICS 3.0
Different linguistic systems will be analyzed through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems will be emphasized in individual student field experience and in readings and lectures. This course is cross-listed with Linguistics (LNGN 203). Meets the General Education Requirement—Social Science, Survey Course.

ANTH 204
ANTHROPOLOGY OF RELIGION 3.0
Patterns of religious beliefs and behaviors which relate to sacred, supernatural entities. Origin theories, divination, witchcraft, mythology and the relationship of religious movements to other aspects of culture.

ANTH 205
PREHISTORIC ARCHAEOLOGY 3.0
The development, method and theory of anthropological archaeology, analysis and interpretation of prehistoric cultural data by means of audio-visual, field and participatory involvement. Meets the General Education Requirement—Social Science, Survey Course.

ANTH 206
HUMAN VARIATION 3.0
The study of various races from the perspective of physical anthropology. Theories and explanations of human variations, racial types in the modern world, as well as misconceptions concerning race, intelligence, and culture will be explored. Meets the General Education Requirement—Contemporary Issues. Meets the Minorities Culture Requirement

ANTH 207
AMERICAN FOLK CULTURE 3.0
This course introduces students to the anthropological literature concerning American oral (folklore) and material (folklife) folk culture. Students are exposed to the different folklore traditions as well as analytical theory concerning them, in the first half of the course. The second half is devoted to the presentation and analysis of material folk culture. Meets the General Education Requirement—Social Science, Topic Course.

ANTH 214
ANTHROPOLOGY OF CONFLICT AND VIOLENCE 3.0
A multidisciplinary approach to the social sources of conflict and violence; the anthropological approach contrasted with biological and other approaches; inter-personal and institutional conflict and violence; the relationship between conflict and violence: types of conflict and violence, war, crime, family violence, class conflict, ethnic and racial hostilities. Meets the General Education Requirement—Contemporary Issues.

ANTH 215
THE ANTHROPOLOGY OF FOOD AND NUTRITION 3.0
An analysis of cultural practices and their effect on people's diet, nutritional status, and ecological situation. Cross-cultural comparisons will be emphasized.

ANTH 301
PEOPLES OF AFRICA 3.0
Diversity in the lifestyles of representative African cultures, prehistory, culture change, and contemporary problems in sub-saharan Africa. Meets the General Education Requirement—Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

ANTH 302
NATIVE LATIN AMERICANS 3.0
Study of indigenous peoples of Latin America. Surveys earliest evidence of human occupation of middle and south America and the Caribbean; diverse origins of food production; intellectual achievements; political organization; material contributions to world culture; and aspects of early European contact and conquest. Meets the General Education Requirement—Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

ANTH 304
PEOPLES OF THE SOVIET UNION 3.0
Selected ethnic, linguistic and religious identities within the borders of the Soviet Union; Russian influence on culture change among non-Russian peoples.

ANTH 305
NATIVE NORTH AMERICANS 3.0
Amerindian cultures north of Mexico; representative tribes, their world views, and their adaptations to the environment, each other and European contact. Meets the General Education Requirement—Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

ANTH 307
ETHNOLOGY OF SOUTHEAST ASIA AND OCEANIA 3.0
Anthropological survey of selected tribal and peasant societies of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia, and the Philippines: recent socio-cultural changes. Meets the General Education Requirement Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

ANTH 310
CULTURES OF THE MIDDLE EAST 3.0
The middle east culture area in anthropological perspective. Emphasis is placed on the nature of different interlocking cultural systems which are adaptations to environmental stresses in the middle east. The concepts of culture and society will be explored in the context of course materials. Meets the General Education Requirement—Social Science, Non-Western Cultural Perspectives.

ANTH 311
ANTHROPOLOGY OF AMERICAN SUBCULTURES 3.0
Analysis of the diversity of racial, ethnic, religious, occupational, and other subcultures and subgroups within the U.S. Emphasis on the character of American culture. Subpopulations are examined in relationship to each other and to the mainstream culture. Meets the General Education Requirements—Contemporary Issues. Meets the Minorities Culture Requirements. Meets the Human and Intercultural Relations Requirement.

ANTH 312
PEASANT CULTURE 3.0
Persistence and change among selected peasant peoples of the world. Characteristics of peasant society, personality in peasant culture and modernization trends and effects. Guest lectures by cultural historians. Meets the General Education Requirement—Social Science, Non-Western Cultural Perspectives.

ANTH 313
ARCHAEOLOGY OF ANCIENT MIDDLE AMERICA 3.0
The archaeology of ancient cultures of middle America. Consists of two major units (1) northern Mesoamerica, the Gulf Coast, Oaxaco and Central Mexican Aztecs (2) ancient Maya of Mexico and Central America.

ANTH 320
CONTEMPORARY PRACTICAL ANTHROPOLOGY 3.0
The course emphasizes the uses of anthropology in contemporary societies by stressing the skills and knowledge needed for the development of practical solutions to current problems. Special attention is placed on: policy decision-making, community development, cultural resource management, advocacy and social impact assessment.

ANTH 321
METHODS IN ANTHROPOLOGICAL RESEARCH
AND PRACTICE 3.0
This course is designed to provide students with both knowledge and experience in the practice of anthropology via participant observation, simulations, project planning, and targeted field exercises. In carrying out selected activities, students will not only learn about the uses of anthropological research techniques in a variety of contexts but will themselves experience the satisfaction of actually "doing" Anthropology.
Prerequisite: ANTH 320.

ANTH 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
Transcultural focus on the inter-related nature of culture and human behavior. Interdisciplinary course with emphasis on mutual dependencies of anthropological and psychological theory and method. Students work with bicultural informants. Cross-listed with psychology (PSYC 405).
Prerequisite: ANTH 100 or PSYC 101.

ANTH 406
ANTHROPOLOGY OF AGING AND THE AGED 3.0
An analysis of the influences of cultural systems on the processes of aging. Special emphasis is placed on the behaviors and meanings attached to the stages of growing older in a variety of cultural systems.

ANTH 407
INDEPENDENT RESEARCH IN ANTHROPOLOGICAL
THEORY AND METHOD 3.0
Directed research towards the preparation of written papers, stressing fieldwork, library research and problem orientation. A tutorial without formal class meetings.
Prerequisite: Departmental approval.

ANTH 410
FIELD METHODS: VISUAL ANTHROPOLOGY 3.0
This course is designed to provide students with opportunities to explore potential uses of photography in anthropological research and practice. Each student is guided in the development of a project which demonstrates the significance of recording and interpreting visual data in the study of selected aspects of culture, social interaction patterns, and/or individual behavior. As the focus of this experience is on the collection and interpretation of visual data, not the technical aspects of photography, only basic skills and knowledge about effective camera usage are required. Open to non-majors with the instructor's permission.

ANTH 411
ARCHAEOLOGICAL FIELD METHODS 3.0
Provides practical field experience in the various aspects of survey and excavation techniques. A specific area will be surveyed and a site will be excavated.
Prerequisite: ANTH 205 or instructor's permission.

ANTH 412
CULTURAL ECOLOGY 3.0
The relationships between culture and the bio-physical environment, as well as the cultural environment. The emphasis will be on primitive and non-western cultures.

ANTH 413
MEDICAL ANTHROPOLOGY 3.0
Examines the study of medical care in comparative societies (ethnomedicine) as well as the historical and ecological aspects of disease in human evolution.
Prerequisite: ANTH 101 or instructor's permission.

ANTH 414
SELECTED ISSUES IN ANTHROPOLOGY 3.0-6.0
Identification and analysis of contemporary issues and problems in anthropology—e.g. models of society; new directions in anthropological inquiry and methodology; etc.
Prerequisite: 6 s.h. in Anthropology.

ANTH 415
WOMEN IN TRADITIONAL SOCIETY 3.0
This course surveys several traditional pre-industrial societies with special emphasis on the place of women in each society studied. The connections between environment technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic system is also analyzed. Meets the Minorities Culture Requirement.

ANTH 419
EXPERIMENTAL ARCHAEOLOGY 3.0
The course will cover the manufacture, use, preservation, analysis and cataloging of prehistoric artifacts made of stone, bone, and wood.
Prerequisites: ANTH 205 or ANTH 411.

ANTH 420
INTERNSHIP IN ANTHROPOLOGY 3.0-6.0
According to interest and preparation, students are placed in cooperating agencies in order to provide an opportunity to test their acquired theoretical knowledge and to gain disciplined practice in their profession. Under faculty guidance and agency supervision, students are to engage in anthropological fieldwork by conducting research and/or special projects.
Prerequisite: 24 hours in Anthropology, 6 additional hours in the School of Humanities and Social Sciences.

ANTH 430
FIELD METHODS LINGUISTICS 3.0
Focuses on the development of the student's skill in gathering and analyzing linguistic data. Complements the more theoretically oriented courses in linguistics.
Prerequisites: ANTH 203 or LNGN 210.

ANTH 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
The historical conditioning of Japanese behavior; cultural change in the perspective of traditional periodization of Japanese history; contributions of religion and philosophy to defining social values. Cross-listed with History (HIST 432). Meets the General Education Requirement—Social Science, Non-Western Cultural Perspectives.

PRAN 420
PRE-APPRENTICESHIP IN ANTHROPOLOGY 3.0
Students design their apprenticeship in anthropology by completing the following tasks in cooperation with the program's director: identification of potential organizations for internship placement; initial agency visitations; selection of apprenticeship setting; and identification of a practical research problem. Prior to preparing an apprenticeship contract, each student is required to review related literature, produce a statement of objectives, and formulate a preliminary plan for conducting the project.
Prerequisite: ANTH 321.

Biology

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: Larry Cribben

The student can prepare for a biology career, graduate work, or professional programs in medicine, dentistry, medical technology, physical therapy, veterinary medicine, pharmacy and other fields related to biology, by taking the major requirements with a proper selection of electives. Students can obtain certification to teach biology by completing the professional sequence. A minor in biology is also available.

Outstanding students can take advantage of the honors program and be granted an "Honors in Biology" by fulfilling the prescribed requirements. For information about the program, contact the department chairperson.

Freshman courses offered for biology majors assume that the student has taken biology, chemistry and physics and at least three years of college preparatory mathematics in high school.

A major in toxicology is also offered and is described later in this catalog.

Biology Major

Required Courses

			Semester Hours
BIOL	121	The Plant Kingdom	4
OR			
BIOL	120	Plant Form and Function	4
BIOL	130	General Zoology I	4
BIOL	131	General Zoology II	4
BIOL	140	Biology of the Cell	4
BIOL	414	Genetics	5

Collateral Courses

CHEM	120, 121	General Chemistry I, II	4 ea.
CHEM	230, 231	Organic Chemistry I, II	3 ea.
CHEM	232	Experimental Organic Chemistry I	2
PHYS	193, 194	College Physics I, II	4 ea.

Select one sequence:

MATH	115	Precalculus Mathematics	3
MATH	116	Calculus A	4
MATH	122, 221	Calculus I, II	4 ea.
MATH	117, 118	Mathematics and Computer Science for the Life Sciences I, II	4, 3

Electives

Select 13 semester hours from the appropriate list to be obtained from the department 13

Biology Minor

Required Courses

BIOL	121	The Plant Kingdom	4
OR			
BIOL	120	Plant Form and Function	4
BIOL	130	General Zoology I	4
BIOL	131	General Zoology II	4
BIOL	140	Biology of the Cell	4
BIOL	414	Genetics	5

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. The course requirements are otherwise similar to those of the Biology major. In addition, for the Comprehensive Science and Biological Science certificates, two additional courses, BIOL 120 Plant Form and Function and PHED 401 The Teaching of Science in Secondary Schools, must be taken.

Second Teaching Field in Biological Sciences

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Students majoring in another field desiring certification in biology in addition to one in their major field must take the following:

BIOL	120	Plant Form and Function	4
BIOL	121	The Plant Kingdom	4
BIOL	130	General Zoology I	4
BIOL	131	General Zoology II	4
BIOL	370	Principles of Ecology	3
BIOL	414	Genetics	5
CHEM	120	General Chemistry I	4
CHEM	121	General Chemistry II	4
PHED	401	The Teaching of Science in Secondary Schools	4

Special Program Requirements

Biology Honors

- Biology Major
- Overall Grade Point Average 3.50
- Biology Grade Point Average 3.70 with no grade lower than a "B"
- Additional Courses
  BIOL 418 Biology Independent Study
  BIOL 491 Research in Biology Literature

(2 Biology faculty sponsors needed)

Courses of Instruction

BICL 404
PLANT AND ANIMAL HISTOLOGICAL TECHNIQUES 3.0
Basic techniques and skills in preparation of permanent microscopic slides of plant and animal tissue. (1 hr. lecture, 3 hrs. laboratory.)
Prerequisite: 12 semester hours of biology.

BICL 405
CELL CULTURE 3.0
Theory of and practice in working with living cells: tissue culture techniques, cell communication, differentiation, regeneration and aging in several living cell systems.
Prerequisite: All required biology courses (20 hrs.) and permission of instructor.

BICL 406
SCANNING ELECTRON MICROSCOPY 4.0
Introduction to theory and practice of scanning electron microscopy. Includes specimen preparation, scanning electron microscope operation, electron specimen interactions/imagery, and microanalysis.

BIOL 100
BIOLOGICAL SCIENCES 4.0
Organization of plants and animals, structure, function mechanisms of heredity, evolutionary change. Interrelationships of man, other organisms and environment. (3 hrs. lecture, 2 hrs. laboratory.) Meets the General Education Requirement—Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 103
BASIC BIOLOGY I 4.0
A study of the structure and function of cells, a survey of the plant kingdom describing the anatomy, physiology and ecology of plants with emphasis on the higher plants. Meets the General Education Requirement—Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 104
BASIC BIOLOGY II 4.0
Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these. (Three hours lecture; three hours laboratory.) Meets the General Education Requirement—Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 107
BIOLOGY FOR SURVIVAL 3.0
Basic concepts of biology that focus on social implications of pollution, population control, radiation, drugs, pesticides, the genetic revolution, etc. For non-science majors. (3 hrs. lecture.) Meets the General Education Requirement—Natural/Physical Science, Non-laboratory Science Only.

BIOL 109
INTRODUCTORY ECOLOGY: THE LIVING WORLD 3.0
To acquaint the non-biology major with the general principles of plant and animal interactions and the adaptations of plants and animals to their habitats including the extreme habitats of desert, cave, deep sea, and the arctic. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

BIOL 110
THE BIOLOGY Of HUMAN LIFE 4.0
The biological basis to human development, birth, maturation, and aging. Not for biology major credit. (3 hrs. lecture, 3 hrs. laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 120
PLANT FORM AND FUNCTION 4.0
This course acquaints the student with the methods and tools of science. Morphology and physiology of the cell and of the plant as a whole are considered.

BIOL 121
THE PLANT KINGDOM 4.0
Survey of the plant kingdom with emphasis on evolutionary trends and economic importance. (2 hrs. lecture, 4 hrs. laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory Science Only.

BIOL 130
GENERAL ZOOLOGY I 4.0
An introduction to the animal kingdom. Phylogeny, anatomy physiology, reproduction, development and ecology are discussed in relation to selected animal types. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 131
GENERAL ZOOLOGY II 4.0
An introduction to the animal kingdom. Phylogeny, anatomy, physiology, reproduction, development and ecology are discussed in relation to selected animal types. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: BIOL 130.

BIOL 140
BIOLOGY OF THE CELL 4.0
Form, function and evolution of cells. (3 hrs. lecture, 3 hrs. laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 213
INTRODUCTION TO FIELD BIOLOGY 2.0
Taxonomy, ecology and conservation are stressed for a ten-day period at the New Jersey State School of Conservation in Stokes State Forest.

BIOL 215
HUMAN HEREDITY 3.0
A non-major course introducing concepts of classical heredity and modern molecular genetics, which stresses the techniques and significance of genetic knowledge and research. Meets the General Education Requirement—Natural/Physical Science, Non-laboratory Science Only.

BIOL 240
MAMMALIAN ANATOMY AND PHYSIOLOGY I 3.0
Human anatomy and physiology for health education and physical education majors. Not for Biology majors. (2 hours lecture, 2 hours laboratory.)

BIOL 241
MAMMALIAN ANATOMY AND PHYSIOLOGY II 3.0
Human anatomy and physiology for health education and physical education majors. Not for Biology majors. (2 hours lecture, 2 hours laboratory.)

BIOL 242
HUMAN BIOLOGY 3.0
Body structure and functions in relation to the maintenance of good health. Not for Biology majors. (2 hrs. lecture, 2 hrs. laboratory.)

BIOL 243
HUMAN ANATOMY AND PHYSIOLOGY 4.0
A study of the dynamics of the human body in relation to its structure and function is based on its nutritional input. Each organ system is discussed in relation to its contribution to the whole functioning organism, as well as a basic survey of its pathologies. Primarily for ADA Certification.
Prerequisite: CHEM 270.

BIOL 244
ANATOMY AND PHYSIOLOGY OF MAMMALS I 4.0
The structure and function of the cell, tissue and organ systems-integomentary, skeletal, muscular, circulatory and respiratory. Non-majors only. (3 hours lecture, 2 hours lab.)

BIOL 245
ANATOMY AND PHYSIOLOGY OF MAMMALS II 4.0
The structure and function of the organ systems - nervous, excretory, endocrine, digestive and reproductive. (3 hours lecture, 2 hours lab.) Not for Biology majors.

BIOL 254
APPLIED MICROBIOLOGY 3.0
Microbiological concepts and techniques applicable to food and dairy processing, health and disease, water, waste and other environmental problems. (2 hours lecture, 3 hours lab.)
Prerequisites: 1 year chemistry or course in similar field.

BIOL 255
SURVEY OF MICROBIOLOGY 4.0
Microbiological concepts and techniques applicable to medical, health and environmental problems. (3 hrs. lecture, 2 hrs. lab.)
Prerequisites: 1 year of chemistry or course in similar field.

BIOL 300
ENVIRONMENTAL BIOLOGY AND RELATED CONTROVERSIAL ISSUES 3.0
Analysis of ecological problems of today: population trends and control, food production, environmental deterioration, waste disposal etc.
Prerequisite: 12 semester hours of biology.

BIOL 330
INTRODUCTION TO ANIMAL BEHAVIOR 3.0
Concepts and theories of the sensory world of animals and behavioral patterns resulting in environmental adaptations.
Prerequisites: BIOL 130, 131 and 4 additional Biology credits or permission of instructor.

BIOL 350
MICROBIOLOGY 4.0
A study of bacteria, yeast, molds and other microorganisms in relation to modern biological concepts and the welfare of man. Standard techniques employed in the laboratory. (3 hours lecture, 3 hours laboratory.)
Prerequisites: BIOL 140, CHEM 120, 121.

BIOL 370
PRINCIPLES OF ECOLOGY 3.0
To acquaint the biology majors with the general principles of Ecology, population dynamics and adaptations of plants and animals to the various habitats. (2 hours lecture, 2 hours laboratory.)
Prerequisite: 1 semester botany and 2 semesters zoology.

BIOL 409
EXTERNSHIP IN BIOLOGICAL RESEARCH (COOPERATIVE EDUCATION) 1.0-4.0
Full- or part-time work in an established laboratory with a scientific investigator for the duration of the term.
Prerequisite: Approval of director of Cooperative Education and Biology Department Cooperative Education Coordinator.

BIOL 411
INTRODUCTION TO TRANSMISSION ELECTRON MICROSCOPY 4.0
Basic theory and practice of electron microscopy. Specimen preparation ultramicrotomy, microscopy, photographic preparation of final print, interpretation of results. (3 hrs. lecture, 3 hrs. laboratory.)
Prerequisites: 18 hours biology, BICL 404 and instructor's permission.

BIOL 414
GENETICS 5.0
Lecture and lab. Heredity, gene and chromosomal structure and function, gene regulation, mutation and repair, genes in populations, genetic manipulation, and applied genetics are covered. Lab exercises illustrate genetic concepts and include a semester-long project and paper. Required of all Biology majors and minors.
Prerequisites: BIOL 121, 140; CHEM 120, 121.

BIOL 417
EVOLUTIONS AND SYSTEMATICS 3.0
Causes and mechanisms of biological variation and species formation as the basis of modern systematics and evolutionary theory.
Prerequisites: BIOL 130, 131 and/or BIOL 120, 121; and BIOL 412 is recommended.

BIOL 418
BIOLOGY INDEPENDENT RESEARCH 1.0-4.0
Under the guidance of a sponsor, students will investigate individual problems of appropriate scope. A written and/or oral report as required. (Offered on demand.)
Prerequisites: 15 semester hours of biology, including BIOL 140; 3.00 GPA in Biology.

BIOL 420
ECONOMIC BOTANY 3.0
Importance of plants to the world in general and to man in particular. (Not offered every year.)
Prerequisites: BIOL 320 or 121.

BIOL 425
ELEMENTARY PLANT PHYSIOLOGY 4.0
Major physiological processes of the flowering plant: growth, metabolism, photosynthesis, respiration, water relations and mineral nutrition. (Not offered every year.)
Prerequisites: BIOL 121, 320; CHEM 231.

BIOL 426
NEW JERSEY FLORA 4.0
Field identification of mosses, liverworts, ferns, and seed plants in a variety of habitats. (Not offered every year.)
Prerequisite: BIOL 121 or course in similar field.

BIOL 430
FIELD ORNITHOLOGY 3.0
Identification and natural history of birds in a variety of habitats. Trips on a varying schedule. (Not offered every year.) (1 hr. lecture, 3 hrs. laboratory.)

BIOL 431
ENTOMOLOGY 3.0
Identification, physiology and ecology of common insect families. (Not offered every year.)
Prerequisite: BIOL 130.

BIOL 432
MEDICAL ENTOMOLOGY 3.0
The study of arthropods that are vectors of diseases afflicting man and domestic animals. (Not offered every year.)
Prerequisite: BIOL 130 or 431.

BIOL 434
INTRODUCTORY MOLECULAR BIOLOGY 3.0
This course is designed to examine the molecular biology of plant and animal cells.
Prerequisites: BIOL 350, 415, CHEM 370.

BIOL 435
EXPERIMENTAL MOLECULAR BIOLOGY 2.0
This laboratory course will introduce biology majors to the basic and important techniques of molecular biology.
Prerequisite: BIOL 434.

BIOL 439
BIOLOGY OF ANIMAL PARASITES 3.0
The basic principles of parasitism. Ecological, morphological, and physiological adaptations for parasitism. Evolution of parasites and integration with the host.
Prerequisite: 1 year of zoology and/or botany. Genetics recommended.

BIOL 440
MAMMALIAN ANATOMY AND HISTOLOGY 4.0
Functional human anatomy at the microscopic and gross level. Laboratory dissection of the cat and study of prepared histological slides. (3 hours lecture, 3 hours lab.)
Prerequisite: BIOL 131.

BIOL 442
HUMAN PHYSIOLOGY 4.0
Functions of animal organs and systems with emphasis on maintenance of homeostasis.
Prerequisite: BIOL 440 or equivalent.

BIOL 443
VERTEBRATE EMBRIOLOGY 4.0
Developmental anatomy of the vertebrates, especially amphibian, chick and human. General concepts of development and cell differentiation. (Not offered every year.)
Prerequisites: BIOL 130, 131.

BIOL 444
CELL PHYSIOLOGY 3.0
Advanced course in cell function.
Prerequisites: BIOL 442, CHEM 230, 231

BIOL 445
IMMUNOLOGY 3.0
Cellular and humoral immunal responses, immunoglobulines, antigen-antibody reactions, immunopathology, transplantation and blood transfusion. (Not offered every year.)

BIOL 446
ENDOCRINOLOGY 3.0
Basic anatomy and physiology of the mammalian endocrine glands with special attention directed to the human endocrine glands. The interrelationships between the various endocrines including neural control and the role of these glands in maintaining the homeostasis of the body will be stressed.

BIOL 447
FUNDAMENTALS OF PHARMACOLOGY 3.0
Introduction to the study of chemicals that have biological effects, with special emphasis on those with medical importance.
Prerequisites: BIOL 442, CHEM 230, 231 or instructor's permission.

BIOL 450
MEDICAL MICROBIOLOGY 3.0
The course is designed to acquaint the Biology major with those microorganisms which cause disease, the prevention of disease, therapeutic agents to control microbial diseases and the body's natural defense mechanisms.
Prerequisite: BIOL 350 or equivalent.

BIOL 460
BIOLOGICAL OCEANOGRAPHY 3.0
Biological processes within oceans and estuaries are considered in relation to the physical environment. Field and laboratory work. (Not offered every year.)
Prerequisites: BIOL 130, 121.

BIOL 461
LIMNOLOGY 3.0
Biological and physical processes of rivers and lakes. Field work and laboratory. (Not offered every year.)

BIOL 467
BIOLOGY Of THE FISHES 4.0
Systematics, adaptations, reproduction, evolution, ecology and zoo-geography of major groups of marine fishes. At New Jersey Marine Sciences Consortium. (Not offered every year.)
Prerequisites: BIOL 131, 442.

BIOL 471
BIOMEDICAL ETHICS 2.0
Seminar course dealing with ethical dilemmas posed by advances in biomedical technology. Background readings in ethics will be followed by discussions of readings on the applications and consequences of modern biomedical research.
Prerequisites: BIOL 415 or 434.

BIOL 490
SELECTED TOPICS IN BIOLOGY 2.0-4.0
Course which will allow the advanced undergraduate student to study a-single topic in depth. This course would allow the students an opportunity to integrate the principles of several areas (ecology, physiology, genetics, etc.) of biology in the study of a single topic.

BIOL 491
RESEARCH IN BIOLOGY LITERATURE 1.0
Each student will survey current biological literature pertinent to a specific problem. A comprehensive report is required. (Not offered every year.)
Prerequisites: 15 semester hours in biology, including BIOL 140; 3.00 G.P.A. in biology.

BIMS 220
INTRODUCTION TO MARINE BIOLOGY 4.0
A field and laboratory oriented course covering the characteristics of marine plants and animals. The course is designed to provide the student with experience in collecting and identifying local marine flora and fauna.

BIMS 422
BIOLOGY OF MARINE PLANKTON 2.0
A study of the marine phytoplankton and zooplankton, their collection, analysis and interpretation. Their role in the ecosystem will be stressed as will be their distribution, particularly those of the near shore and estaurine environment. Field trips will be made to coastal New Jersey. Offered at the site of the New Jersey Marine Sciences Consortium. Cross-listed as PHMS 422.

BIMS 426
MARINE ENERGY SYSTEMS 2.0
Principles of production and energy transfer in the marine environment. Spatial and temporal distribution of productivity. Productivity measurement and assessment of the roles of plants, herbivores and carnivores in marine energetics. Offered at New Jersey Marine Sciences Consortium.
Prerequisite: One year of physics, one year of organic chemistry, one year of biology, and one semester of calculus.

BIMS 431
MARINE INVERTEBRATE ZOOLOGY 4.0
A study of the invertebrates living in the marine realm with emphasis on the interrelations of these animals to their particular environment. Field work will include studies of the peagic and benthonic forms associated with estuaries and the continental shelf. Also offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisites: BIOL 130, 131.

BIMS 433
SEASHORE ORNITHOLOGY 2.0
Field indentification of birds of the ocean, salt marsh, sand dunes, and adjacent land areas. Includes discussion of habits and ecology. Offered at New Jersey Marine Sciences Consortium
Prerequisite: BIOL 430.

BIMS 438
SEASHORE ENTOMOLOGY 2.0
Ecological studies of the insect fauna found in the unique habitats of the (1) intertidal zone, (2) coastal sand dunes and (3) salt marsh found along the New Jersey shoreline.
Prerequisite: BIOL 130 or 431.

BIMS 450
MARINE BOTANY 4.0
An introduction to the structure, systematics, physiology and ecology of algae and metaphyta of the marine environment. Emphasis will be placed on the flora of the estuary and tidal marsh. Biology of the associated phytoplankton will be studied. Offered at the site of the New Jersey Marine Sciences Consortium. Cross-listed as PHMS 450.
Prerequisite: BIOL 102 or instructor's permission.

BIMS 455
MARSH AND DUNE VEGETATION 2.0
A field and laboratory study of the plant communities that inhibit the sand dunes and marshes of the coastal zone of New Jersey. The diversity of the forms of plant life and their adaptations and ecological roles. The collection and identification of individual plant species. Also offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: Eight credit hours of biology including one semester of botany. A course in ecology is recommended.

BIMS 460
ADVANCED MARINE BIOLOGY 4.0
Interrelationships of marine animals and plants. Ecological response to physical and chemical parameters. Principles such as zonation, succession, ecosystem structure, and physiological response will be examined through lectures, field projects and laboratory study.

BIMS 490
FIELD METHODS IN THE MARINE SCIENCES 4.0
The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the New Jersey Marine Sciences Consortium. (2 hrs. lecture, 4 hrs. lab.)
Prerequisite: Senior standing in science.

BIMS 491
PLANKTON SAMPLING AND ANALYSIS 1.0
Sampling, identification and counting of phyto- and zooplankton. New Jersey Marine Sciences Consortium.
Prerequisites: Biology major or permission of the instructor. A specialized course for a specialized purpose.

BIMS 494
PRIMARY PRODUCTION IN THE MARINE ENVIRONMENT 1.0
Theory and techniques of primary production measurement. New Jersey Marine Sciences Consortium.
Prerequisite: 16 credits in biology or geoscience. Advanced course.

Business Education and Office Systems Administration

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Rosemarie McCauley

There are three major thrusts to the programs offered through the department: Business Education, Office Systems Administration, and Retail Merchandising and Management.

Students in the Business Education programs follow a professional sequence qualifying them for New Jersey teacher certification in a variety of business subjects upon the satisfactory completion of the program and satisfactory achievement on the Supplementary portion of the National Teachers Examination. Four Business Education program specializations are available: Accounting/General Business, Comprehensive; Distributive Education/General Business; and Secretarial/General Business. Documented work experience is required for all specializations. Individualized certification programs are also available to post-graduates who desire initial or additional certification in business education.

Students in the Office Systems Administration program develop skills and competencies that prepare them for a broad spectrum of careers in the office setting related to the areas of information processing, microcomputer applications, records management, systems development, and office administration.

Students in the Retail Merchandising and Management program develop skills and competencies that prepare them for careers as buyers, fashion coordinators, merchandisers, and retail executives. Supervised work experience is an integral part of the program.

The Office Systems Administration program and the Retail Merchandising and Management program are concentrations in Business Administration offered through the Department of Business Education and Office Systems Administration.

All programs lead to a Bachelor of Science degree and are open to high school graduates as well as those who have attended a two year college.

Teacher Education

Professional Sequence:

Teacher Education Collateral Courses:

			Semester Hours
CURR	200	Initial Field Experience	1
CURR	400	Teacher, School, and Society	3
CURR	410	Intermediate Field Experience in Education	1
READ	407	Reading: Theory and Process	3
		OR	
READ	408	Reading: The Content Areas	3
CURR	409	Teaching for Critical Thinking	3
EDFD	220	Philosophical Orientation to Education	3
BSED	273	Introduction to Computers in Business	3
BSED	309	Personal Finance	3
MATH	109	Statistics	3
PSYC	101	General Psychology	3
PSYC	200	Educational Psychology	3
ECON	100	Introduction to Economics	3
Departmental Methods			Variable by Specialization

Also: Documentation of 400-800 hours of full-time work experience or completion of a cooperative education experience.

Professional Semester:

Student Teaching Package	13

(See section on Teacher Education Program)

Business Education Major

Specializations:

Accounting and General Business Education

Required Courses

			Semester Hours
BSED	101	Contemporary Business	3
BSED	306	Information Systems and Applications	3
BSED	335	Computer Applications of Office Systems	3
BEOS	320	Administrative Business Communications	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
ACCT	403	Tax Accounting	3
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Comprehensive Business Education

Required Courses

			Semester Hours
BSED	101	Contemporary Business	3
BSED	203	Production Typewriting	1
BSED	303	Advanced Stenography and Transcription	2
BSED	306	Information Systems and Applications	3
BSED	335	Computer Applications of Office Systems	3
BSED	402	Principles and Methods of Teaching Accounting	2
BEOS	207	Word Processing Applications	3
BEOS	320	Administrative Business Communications	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
ACCT	403	Tax Accounting	3
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Distributive Education and General Business Education

Required Courses

			Semester Hours
BSED	101	Contemporary Business	3
BSED	401	Principles and Methods of Teaching General Business	2
DIST	208	Salesmanship	3
DIST	249	Merchandise Information	2
DIST	307	Retail Store Merchandising and Management	3
DIST	308	Visual Merchandising	3
DIST	309	Buying for Distribution	2
DIST	348	Practicum in Distributive Education I	1
DIST	450, 451	Supervised Work Experience and Seminar I, II	2 ea.
DIST	454	Principles & Methods of Teaching Distributive Education	3
DIST	455	Curriculum Development of Distributive Education	3
ISVC	411	Principles and Philosophy of Vocational Education	1
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.

FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Secretarial and General Business Education

Required Courses

			Semester Hours
BSED	101	Contemporary Business	3
BSED	203	Production Typewriting	1
BSED	303	Advanced Stenography and Transcription	2
BSED	306	Information Systems and Applications	3
BSED	335	Computer Applications of Office Systems	3
BEOS	207	Word Processing Applications	3
BEOS	320	Administrative Business Communications	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Teacher Certification

Students wishing certification must be accepted into the Teacher Education Program. They must follow the professional sequence outlined both in this department and elsewhere in the catalog.

Business Administration

Office Systems Administration Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration.

Required Courses

			Semester Hours
BSED	306	Information Systems and Applications	3
BSED	335	Computer Applications of Office Systems	3
BEOS	308	Principles of Office Management	3
BEOS	309	Word/Information Processing Management	3
BEOS	320	Administrative Business Communications	3
BEOS	321	Records Management	3
BEOS	411	Managing Automated Office Systems	3
BEOS	430	Seminar in Office Systems Administration	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	316	Human Resource Management	3
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Collateral Courses

BSED	273	Introduction to Computers in Business	3
MATH	109	Statistics	3
PSYC	101	General Psychology	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

Electives Within the Major 6

Non-Business Electives 14

Retail Merchandising and Management Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration.

Required Courses

			Semester Hours
DIST	208	Salesmanship	3
DIST	249	Merchandise Information	2
DIST	308	Visual Merchandising	3
DIST	307	Retail Store Merchandising and Management	3
DIST	309	Buying for Distribution	2
DIST	348	Practicum in Distributive Education I	1
DIST	450, 451	Supervised Work Experience and Seminar I, II	2 ea.
DIST	482	Independent Owned and Franchised Retailer	3
DIST	483	Seminar in Retail Management	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3
MKTG	442	Marketing Research	3
MKTG	446	Marketing Strategy and Implementation	3

Collateral Courses

			Semester Hours
BSED	273	Introduction to Computers in Business	3
MATH	109	Statistics	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

Electives Within the Major 8

Non-Business Electives 9

Courses of Instruction

BEOS 207
WORD PROCESSING APPLICATIONS 3.0
Enables students to develop competencies in handling word processing equipment by means of hands-on experiences using automated typewriters, text-editing equipment, and machine dictation/equipment. Simulation projects will be utilized to integrate the origination, workflow, work measurement, storage, and distribution procedures unique to word processing environments.
Prerequisite: BSED 104, majors only.

BEOS 230
INTRODUCTION TO BUSINESS WORK EXPERIENCE 4.0-8.0
This is an introductory cooperative education course which integrates formal classroom study and assignments with a supervised full-time or part-time off-campus employment experience. The purpose of this course is to develop self awareness and to explore educational and occupational alternatives.
Prerequisites: Sophomore level status (45+ semester hours completed) with a 2.25 minimum grade point average.

BEOS 308
PRINCIPLES OF OFFICE MANAGEMENT 3.0
A study of the most acceptable methods and practices of office administration. Topics include organization and planning of office systems, leadership and human relations, controlling operations and processing of information. Emphasis throughout the course will be on achieving satisfactory human relations and continuous cost reduction.

BEOS 309
WORD/INFORMATION PROCESSING MANAGEMENT 3.0
An understanding of the need and effect of word processing on business productivity. Word processing systems will be investigated with emphasis on personnel, equipment needs, and cost savings.

BEOS 320
ADMINISTRATIVE BUSINESS COMMUNICATIONS 3.0
The study of communication processes using special problem applications with a theoretical and practical base. Writing proposals, business correspondence, business plans, and handling electronic messaging are covered. Emphasis is also on using presentation materials to complement interpersonal and organizational communication.

BEOS 321
RECORDS MANAGEMENT 3.0
Includes study of the criteria and methods by which records are created, stored, retrieved, retained and disposed, as well as attention to study of the managerial considerations necessary for effective selection and utilization of equipment, procedures, and personnel.

BEOS 330
OFFICE SYSTEMS ADMINISTRATION PROFESSIONAL WORK EXPERIENCE PROGRAM 4.0-8.0
This is a cooperative education course specifically for office systems administration majors. Course is designed to integrate formal classroom study and assignments with supervised full-time off-campus employment. It has as its primary goals the development of occupational competencies and pre-professional training.
Prerequisites: Junior or senior status; a 2.45 grade point average; satisfactory completion of BEOS 230 or the equivalent of 6 months of verified full-time work experience; office systems administration major declaration for one prior semester plus the completion of 6 semester hours from the office systems administration core courses.

BEOS 411
MANAGING AUTOMATED OFFICE SYSTEMS 3.0
Needed competencies for organizing and administering an automated office system will be emphasized. A systematic approach to designing implementing, controlling, and integrating electronic office systems will be stressed. Various configurations, available technology, and evaluating methods for assessing present and future systems will be investigated.
Prerequisites: BSED 306, 335, BEOS 309, 321.

BEOS 430
SEMINAR IN OFFICE SYSTEMS ADMINISTRATION 3.0
Current developments in office systems administration will be investigated by student research teams in contemporary administrative office environments. Emphasis will be on helping students develop investigative and analytical skills.
Prerequisites: BSED 306, 335; BEOS 309, 321.

BSED 101
CONTEMPORARY BUSINESS 3.0
The organization and operation of contemporary business are explored. Students study the operation of the free enterprise system, alternative economic systems, and the various functional areas of business: finance, management, production, and marketing. Meets the General Education Requirement—Social Science, Topic Course.

BSED 103
BEGINNING KEYBOARDING 3.0
Beginning keyboarding is designed for those students who have had no previous keyboarding instruction. The course offers basic instruction on the alpha-numeric keyboard in learning the touch method of keyboarding, as well as in developing skill in using the keyboard of communication and information processing, e.g. preparation of basic business and personal letters, business reports, tables, and other related applications. The course meets four periods per week.

BSED 104
INTERMEDIATE KEYBOARDING 3.0
This course is designed for students who have had previous keyboarding instruction. Students will develop increased speed and accuracy and will apply their keyboarding skill in the production of business-related projects. The ultimate aim is to develop proficiency in keyboarding applications. The course meets four periods per week.
Prerequisite: BSED 103

BSED 203
PRODUCTION TYPEWRITING 1.0
Taken in conjunction with methods of teaching typewriting. The technicalities of typewriting procedures; vocational competency in production typewriting.
Prerequisite: BSED 104.

BSED 273
INTRODUCTION TO COMPUTERS IN BUSINESS 3.0
An introduction to the use of information systems in business. Topics that will be covered include computer hardware and software, systems analysis, management information systems, data communications and application development. Students will be introduced to business software packages which will inclue database management, spreadsheeting and business word processing.

BSED 303
ADVANCED STENOGRAPHY AND TRANSCRIPTION 2.0
Taken in conjunction with methods of teaching shorthand. The transcription of shorthand notes into typewritten copy. Sentence structure, correct grammar, spelling and good typewriting techniques: increasing dictation speed for new material as the course progresses.
Prerequisite: BSED 206.

BSED 306
INFORMATION SYSTEMS AND APPLICATIONS 3.0
Designed to provide applications of office automation technologies from the user's perspective. Self-developmental applications involving information interchange, experiences in using technology to enhance communication effectiveness, and opportunities to create system documentation for instruction and/or training are an integral part of the course.

BSED 309
PERSONAL FINANCE 3.0
The role of the consumer in the economy is studied by emphasizing how government and business policies, laws, and practices affect the consumer and his standard of living. Government regulatory laws and regulations, government policies on the control of money and inflation and how they affect the consumers are discussed. Business and labor policies and practices are emphasized in the areas of credit, savings, and housing. Meets the General Education Requirement—Electives, Personal/Professional Issues.

BSED 335
COMPUTER APPLICATIONS OF OFFICE SYSTEMS 3.0
A course designed to prepare students to make decisions in the selection and utilization of microcomputer systems and appropriate software for a business environment based on identified needs; the factors to consider in the implementation of microcomputers at different levels of an organization; and the characteristics of specific software applications used in the business environment. The course also provides students with hands-on experience with commercial software packages and additional work in the structured programming cycle, including the coding and testing of programs using the basic programming language.
Prerequisites: BSED 273, majors only.

BSED 390
BUSINESS INDEPENDENT STUDY I 2.0
Each student, under the guidance of a faculty sponsor, conducts an in-depth study of a current problem in the business education field and presents a written report of the findings. Admission by application submitted to the department chairperson.

BSED 391
BUSINESS INDEPENDENT STUDY II 2.0
Each student, under the guidance of a faculty sponsor, is to conduct an in-depth study of a current problem in the business field. A written report of the findings of the study is to be presented. Admission is by application submitted to the department chairperson.

BSED 401
PRINCIPLES AND METHODS OF TEACHING GENERAL BUSINESS 2.0
The methodology of teaching social business subjects, including general business, business law and consumer education. Content, lesson planning, visual aids and evaluation procedures.
Prerequisites: 12 credits of general business courses.

BSED 402
PRINCIPLES AND METHODS OF TEACHING ACCOUNTING 2.0
The history and development of accounting instruction and materials, aims and objectives in light of current trends. Textbook selection, lesson planning, classroom procedures, tests and measurements, audio-visual and other teaching aids. A test of subject matter competency is required.
Prerequisite: 9 semester hours of accounting.

BSED 403
PRINCIPLES AND METHODS OF TEACHING STENOGRAPHY 1.0
Complements BSED 303 and is designed to prepare secretarial teachers for the teaching of stenography and transcription. Comprehensive coverage of the material and methods for teaching stenography.
Prerequisite: BSED 206.

BSED 404
PRINCIPLES AND METHODS OF TEACHING KEYBOARDING TYPEWRITING 1.0
Complements BSED 204 and deals with the techniques of teaching beginning and advanced typewriting emphasis on the psychology of skill development.
Prerequisite: BSED 203.

BSED 409
BUSINESS EDUCATION PROFESSIONAL SEMINAR 1.0
Provides a forum for dialogue on problems and concerns in achieving effectiveness on the student teaching experience and subsequent related business education teaching.
Prerequisite: BSED 401.

BSED 420
FIELD STUDIES FOR BUSINESS EDUCATION 2.0
Observation of many facets of business operations in representative firms. Evaluation of organization, procedures and equipment of each company visited.

BSED 449
SUPERVISED BUSINESS WORK EXPERIENCE 2.0
An opportunity to work full time in a business position for ten weeks of the summer under college supervision. Weekly seminar to discuss problems related to the work experience program.

DIST 208
SALESMANSHIP 3.0
The role of personal selling in our economy and the diversity of sales positions are explored. Theories and concepts derived from the behavioral sciences are presented to develop an understanding of consumer behavior and basic selling techniques. Students apply their newly acquired selling skills in mock sales demonstrations.

DIST 249
MERCHANDISE INFORMATION 2.0
Textile and non-textile information background and selling information needed in retailing. Standards for determining quality of products and a knowledge of how to care for them. Manufacturing processes of various products.

DIST 307
RETAIL STORE MERCHANDISING AND MANAGEMENT 3.0
Problems involved in the successful operation of a retail organization, preparation of the store for business, movement of merchandise from resource to store, preparation of merchandise for sale, movement of goods to the selling floor and to the customer.

DIST 308
VISUAL MERCHANDISING 3.0
The uses of color, line, and design principles to present and sell merchandise are explored. Students study and use basic visual merchandising techniques, tools, and equipment to design and build merchandise displays.

DIST 309
BUYING FOR DISTRIBUTION 2.0
Functions of the merchandising division, the buyer and merchandising problems. Also customer demand analysis, comparison shopping, planning the buyer's budget. Buying fashions, staples for independent, chain and resident buying offices, and foreign buying.

DIST 348
PRACTICUM IN RETAILING/DISTRIBUTIVE EDUCATION 1.0
Students participate in the ongoing activities of the college's DECA chapter; observe current retail practices during prearranged field trips to stores, fashion houses, and distribution centers; and interview local retail executives and distributive education teachers.

DIST 450
SUPERVISED WORK EXPERIENCE AND SEMINAR I 2.0
Full-time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited-price variety store. Weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer, following sophomore and junior years.
Prerequisites: DIST 208, MKTG 341, majors only.

DIST 451
SUPERVISED WORK EXPERIENCE AND SEMINAR II 2.0
Full time paid work experience in a cooperating department, mass merchandise (discount) speciality or limited price variety store. Weekly evening seminar on store activities and the development executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer following sophomore and junior years.
Prerequisites: DIST 208, MKTG 341.

DIST 454
PRINCIPLES AND METHODS OF TEACHING DISTRIBUTIVE EDUCATION AND COORDINATION 3.0
Federal legislation as it relates to the program; coordinator's duties; methods of teaching store subjects; lecture and demonstrations in teaching forms, reports and manuals; planning the lesson; human relations for store personnel; visual aids; textbook evaluation; trade journal use and the DE club as a teaching device.
Prerequisite: DIST 455.

DIST 455
CURRICULUM DEVELOPMENT OF DISTRIBUTIVE EDUCATION 3.0
Objectives of distributive education; organizing, administering, planning and supervising a complete cooperative program. Organization of vocational education on the federal, state and local levels; developing vocational competencies in curriculum; evaluation of curriculum; surveys of community and student needs; physical equipment requirements; advisory committees; and the use of public relations and extension programs.

DIST 456
HONORS PROGRAM-EXECUTIVE RETAIL TRAINING EXPERIENCE I 4.0
June through August work experience executive training honors program in retail merchandising with weekly class sessions, visitation to the stores. Course covers the division of a store. Student obtains experience in many departments studying the skills of the supervisor.
Prerequisites: DIST 450 and 3.00 cumulative average.

DIST 457
HONORS PROGRAM-EXECUTIVE RETAIL TRAINING EXPERIENCE II 4.0
September through January work experience executive training honors program in retail merchandising with weekly class sessions, visitation to the stores. Course covers the division of a store. Student obtains experience in many departments studying the skills of the supervisor.
Prerequisites: DIST 450 and 3.00 cumulative average.

DIST 482
THE INDEPENDENT-OWNED AND FRANCHISED RETAILER 3.0
The principles and problems related to the independent and franchised retailer are discussed in theoretical and practical perspective. Lecture, research and case problems will integrate all steps from starting the business to evaluating the problems related to the business.
Prerequisites: Retail majors only; DIST 307 (retail store) and 309 (buying).

DIST 483
SEMINAR IN RETAIL MERCHANDISING AND MANAGEMENT 3.0
Advanced problems in retail merchandising are covered. Lectures, research, visiting experts and case problems will integrate all previous courses taught. Strong emphasis will be placed on fashion and the computer in today's retail scene.
Prerequisites: DIST 307, 309; Retail majors only.

Chemistry

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: Roland R. Flynn

The chemistry department offers two majors leading to the degree of Bachelor of Science, Chemistry and Biochemistry. A student who chooses the chemistry major can prepare for graduate study in chemistry or biochemistry, professional employment, professional education in fields related to science, or teacher certification. The courses meet the undergraduate criteria established by the American Chemical Society (ACS). The chemistry major is included in the ACS list of approved programs. The student can complete ACS requirements and be certified to the Society upon graduation.

The student who chooses the biochemistry major will emerge with a strong background in the basic sciences and mathematics as well as biochemistry and will qualify for graduate study in biochemistry or professional employment. With appropriate elective course selections, students in either major can satisfy the requirements for pre-health professional programs (pre-medical, pre-dental or pre-chiropractic).

The curriculum is designed for students who have had high school chemistry, biology and physics, as well as four years of high school mathematics.

The department sponsors a challenging honors program for chemistry majors with outstanding academic records (at least 3.70 grade point average), an undergraduate research program, and offers cooperative education work experiences. Those interested should see the department chairperson for information.

Chemistry Major

Required Courses

	Semester Hours
CHEM 120, 121 General Chemistry I, II	8
CHEM 230, 231 Organic Chemistry, II	6
CHEM 232, 233 Experimental Organic Chemistry I, II	4
CHEM 310 Analytical Chemistry	5
CHEM 311 Instrumental Analysis	4
CHEM 340, 341 Physical Chemistry I, II	6
CHEM 343 Experimental Physical Chemistry	2
CHEM 495 The Chemical Literature	1-2

Collateral Courses

Two Mathematics courses:
MATH 122, 221 Calculus I, II
MATH 420 Differential Equations 8
Two Physics courses:
PHYS 191, 192 General Physics I, II 8
Electives (Major) 6
Select 6 semester hours from the appropriate list to be obtained from the department.

Chemistry Minor

Required Courses

	Semester Hours
CHEM 120, 121 General Chemistry I, II	8
CHEM 230, 231 Organic Chemistry I, II	6
CHEM 232, 233 Experimental Organic Chemistry I, II	4

Select one set
CHEM 310 Analytical Chemistry 5
CHEM 340, 343 Physical Chemistry I, and Experimental Physical Chemistry 5
CHEM 423, 422 Advanced Inorganic Chemistry and Experimental Inorganic Chemistry 6
or
CHEM 470, 472 Biochemistry I, and Experimental Biochemistry 5

Biochemistry Major

Required Courses

	Semester Hours
CHEM 120, 121 General Chemistry I, II	8
CHEM 230, 231 Organic Chemistry I, II	6
CHEM 232, 233 Experimental Organic Chemistry I, II	4
CHEM 310 Analytical Chemistry	5
or	
CHEM 311 Instrumental Analysis	4
CHEM 340 Physical Chemistry I	3
CHEM 341 Physcial Chemistry II	3
CHEM 470 Biochemistry I	3
CHEM 471 Biochemistry II	3
CHEM 472 Experimental Biochemistry	2
CHEM 473 Instrumental Biochemistry Laboratory	2
CHEM 495 The Chemical Literature	1-2

Collateral Courses

Four Biology Courses:
BIOL 140 Cell Biology 4
BIOL 350 Microbiology 4
BIOL 412 Genetics 5
BIOL 495 Molecular Biology 3
Two Mathematics Courses:
MATH 122 Calculus I 4
MATH 221 Calculus II 4
Two Physics Courses:
PHYS 191 General Physics I 4
PHYS 192 General Physics II 4

Special Program Requirements

	Semester Hours
B.S. in Chemistry with American Chemical Society Certification	10

In addition to taking the course requirements in the chemistry major program as detailed previously, a student who wishes to fulfill the minimum requirements for professional training of the American Chemical Society should elect the following courses:

1. **One of the following courses:***
   CHEM 410 Advanced Analytical Chemistry 3
   CHEM 430 Advanced Organic Chemistry 3
   CHEM 440 Advanced Physical Chemistry 3
2. CHEM 423 Advanced Inorganic Chemistry 3

3. One of the following:

CHEM 498 Senior Laboratory 3
CHEM 499 Undergraduate Research ..... (minimum) 3

*Courses used to fulfill the elective requirement C for the chemistry major cannot also be used to fulfill requirement #1 for ACS Certification. This restriction does not apply to ACS Certification requirements 2 and 3.

The learning of certain other skills may be essential in an undergraduate chemistry program. This decision must be made by the student and his advisor. Included in this group are:

Foreign Language: a reading knowledge of German, Russian or French.
Mathematics: Linear algebra.
Computer Science: programming ability in BASIC and FORTRAN.

Honors Program in Chemistry

Chemistry majors can apply for admission to the honors program in chemistry during their sophomore or junior years. Students accepted into the program will be required to take (in addition to the regular chemistry major) the following courses:

	Semester Hours
CHEM 491 Honors Seminar in Chemistry	2
CHEM 492 Honors Thesis in Chemistry	2

Interested students should contact the department chairperson.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. In addition, for the Comprehensive Science and Physical Science certificates, one biology course and PHED 401 The Teaching of Science in Secondary Schools must be taken.

Second Teaching Field in Physical Science

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Students majoring in a field other than chemistry and who desire certification in chemistry may take the physical science program. In addition to the certification program in their major field, the students must take the following courses:

PHYS 191, 192 General Physics I, II 8
Advanced Physics Course 4
CHEM 120, 121 General Chemistry I, II 8
CHEM 230 Organic Chemistry I 3
Two courses representing two areas from: Astronomy, Geology, Meteorology, Oceanography 8
PHED 401 The Teaching of Science in Secondary Schools 4

Courses of Instruction

CHEM 100
INTRODUCTORY CHEMISTRY 4.0
An introductory lecture and laboratory survey course in modern chemistry for non-science majors. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

CHEM 107
COLLEGE CHEMISTRY I 2.0
Introductory chemistry course for non-science majors. Fundamentals of inorganic chemistry.

CHEM 108
COLLEGE CHEMISTRY II 2.0
Introductory chemistry course for non-science majors. Fundamentals of organic and biochemistry.
Prerequisite: CHEM 107.

CHEM 109
COLLEGE CHEMISTRY LABORATORY I 1.0
Laboratory work to reinforce basic concepts of inorganic chemistry. Concurrent with CHEM 107.

CHEM 110
COLLEGE CHEMISTRY LABORATORY II 1.0
Laboratory work to reinforce basic concepts of organic chemistry and biochemistry. Concurrent with CHEM 108.
Prerequisite: CHEM 109.

CHEM 111
ELEMENTS OF CHEMISTRY I 3.0
Basic concepts of chemistry as applied to inorganic and organic compounds.

CHEM 112
ELEMENTS OF CHEMISTRY II 3.0
A study of human biochemistry with emphasis on biomolecules, metabolism, and bioenergetics.
Prerequisite: CHEM 111.

CHEM 120
GENERAL CHEMISTRY I 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, stoichiometry, states of matter, solutions, and selected topics in descriptive inorganic chemistry. Laboratory stresses techniques and data treatment and their use in examining chemical systems. Meets the General Education Requirement—Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: Instructor's permission or previous chemistry course.

CHEM 121
GENERAL CHEMISTRY II 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to thermochemistry, kinetics; general acid base, precipitation, redox equilibria, electrochemistry and selected topics in descriptive inorganic chemistry. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Prerequisite: CHEM 120.

CHEM 130
FUNDAMENTALS OF ORGANIC CHEMISTRY 4.0
Survey of organic chemistry covering all major classes, nomenclature, and characteristic class reactions. (3 hours lecture, 2 hours laboratory.)
Prerequisite: CHEM 107 or equivalent course.

CHEM 195
PROBLEM SOLVING-GENERAL CHEMISTRY 1.0
Course designed to help students in application of mathematics in chemistry with emphasis on individual needs.

CHEM 230
ORGANIC CHEMISTRY I 3.0
Structure and bonding in organic compounds: nomenclature, reactions, properties, and aromatic compounds: stereochemistry; structure analysis by IR, NMR, UV, and MS; introduction to molecular orbital theory.
Prerequisite: CHEM 121.

CHEM 231
ORGANIC CHEMISTRY II 3.00
Nomenclature, reactions, properties, and synthesis of ethers, epoxides, alcohols, amines, and carbonyl compounds; carbohydrates; amino acids, peptides and proteins; pericyclic reactions; synthetic polymers.
Prerequisite: CHEM 230.

CHEM 232
EXPERIMENTAL ORGANIC CHEMISTRY I 2.0
A laboratory course to be taken concurrently with CHEM 230. Basic techniques for the separation. Analysis and synthesis of organic compounds: recrystallization, distillation, extraction, GC, HPLC, TLC, GC/MS, IR, H/C13-NMR, chemical safety methods and regulations.
Prerequisite: CHEM 121.
Corequisite: CHEM 230.

CHEM 233
EXPERIMENTAL ORGANIC CHEMISTRY II 2.0
A laboratory course to be taken concurrently with CHEM 231 and after completion of CHEM 232. Basic techniques for organic synthesis, mechanistic studies, separation and analysis, and chemical safety: multistep syntheses, spectral data-base searching, phase-transfer catalysis, anhydrous procedures, analysis of unknowns by wet-chemical and spectral methods.
Prerequisite: CHEM 232.
Corequisite: CHEM 231.

CHEM 270
FUNDAMENTALS OF BIOCHEMISTRY 5.0
Structure and function of the biomolecules and the metabolic interrelationships in the cell.
Prerequisite: CHEM 130.

CHEM 310
ANALYTICAL CHEMISTRY 5.0
Introduction to concepts of classical analytical chemistry including evaluation of data and apparatus, theory and application of volumetric and gravimetric methods and redox equilibrium, and introduction to electrical methods.
Prerequisites: CHEM 231, 233.

CHEM 311
INSTRUMENTAL ANALYSIS 4.0
Introduction to application of instrumental methods of analytical chemistry. Instrument techniques studied will include spectrophotometry, electroanalytical chemistry, chromatography, nuclear magnetic resonance and mass spectrometry. Theory and application will be examined in lecture and laboratory.
Prerequisites: CHEM 310, 340.

CHEM 320
ENVIRONMENTAL CHEMICAL ANALYSIS 3.0
A study of the sources, reactions, transport, effects, and fates of chemical species in the environment. Lecture and lab will stress the theory, methodology, techniques, and instrumentation for air, water and soil analysis for contaminants. (Two hrs. lecture, two hrs. lab.)
Prerequisite: CHEM 233.

CHEM 340
PHYSICAL CHEMISTRY I 3.0
Thermodynamics, homogeneous and heterogeneous equilibria, gases, electrochemistry, solutions, colligative properties.
Prerequisites: CHEM 231; PHYS 192; MATH 222.

CHEM 341
PHYSICAL CHEMISTRY II 3.0
Kinetics, photochemistry, molecular physical chemistry.
Prerequisites: CHEM 340, PHYS 192, MATH 222.

CHEM 343
EXPERIMENTAL PHYSICAL CHEMISTRY 2.0
A laboratory course to be taken concurrently with CHEM 341. Application and experience with experimental techniques of physical chemistry. Students will perform experiments in calorimetry, measurement of thermodynamic variables, electro-chemical phenomena and kinetics. Analysis of experimental data, statistics and applications of microcomputers will be included.
Prerequisites: CHEM 231, 340, MATH 222, PHYS 192.
Corequisite: CHEM 341.

CHEM 422
EXPERIMENTAL INORGANIC CHEMISTRY 3.0
Practical experience utilizing a broad selection of modern techniques for the synthesis and characterization of inorganic compounds.
Prerequisite: CHEM 340.

CHEM 423
ADVANCED INORGANIC CHEMISTRY 3.0
Physical basis of inorganic structure and reactivity. Electronic structure of atoms, ionic and covalent bonding, acid/base chemistry, the chemistry of aqueous and nonaqueous solutions, coordination chemistry and chemical periodicity.
Prerequisite: CHEM 340.

CHEM 430
ADVANCED ORGANIC CHEMISTRY 3.0
Consideration of structural and electronic theories which form the basis of organic chemistry.
Prerequisite: CHEM 231.

CHEM 470
BIOCHEMISTRY I 3.0
Organization of the living cell; structure, function and chemistry of proteins, carbohydrates and lipids; bioenergetics and oxidation.
Prerequisite: CHEM 231.

CHEM 471
BIOCHEMISTRY II 3.0
The second semester of a two semester course in biochemistry. The course continues the coverage of the chemistry of proteins, carbohydrates, lipids, and nucleic acids, and their role in cellular function and processes. Topics such as the chemistry of hormones, recombinant DNA, mechanisms of enzyme action, protein synthesis, immunoglobulins and membranes are included.
Prerequisite: CHEM 470.

CHEM 472
EXPERIMENTAL BIOCHEMISTRY 2.0
Laboratory studies of carbohydrates, lipids, and proteins, enzyme action, using biochemical techniques.
Prerequisites: CHEM 231, 232.
Corequisite: CHEM 470.

CHEM 473
INSTRUMENTAL BIOCHEMISTRY LABORATORY 2.0
A second semester biochemistry laboratory course which emphasizes modern instrumental techniques in use in the field of biochemistry. Experiments will include use of uvvis spectrophotometer for enzyme kinetics, ultracentrifugation, liquid scintillation counting, fluorescence spectrophotometry, electrophoresis, and high performance liquid chromatography.
Prerequisites: CHEM 470, 472.

CHEM 490
SELECTED TOPICS IN CHEMISTRY 2.0-3.0
In-depth study of a modern aspect of chemistry.
Prerequisite: CHEM 231, instructor's permission.

CHEM 491
HONORS SEMINAR IN CHEMISTRY 2.0
Seminars and discussions on selected areas in chemistry under faculty guidance for students enrolled in the honors program in chemistry.
Prerequisites: Admission to the honors program in chemistry or permission of the chemistry honors committee.

CHEM 492
HONORS THESIS IN CHEMISTRY 2.0
Preparation and oral presentation of a comprehensive written thesis in chemistry under guidance of a faculty mentor for completion of the honors program in chemistry.
Prerequisite: CHEM 491.

CHEM 495
THE CHEMICAL LITERATURE 1.0-2.0
The chemical literature and techniques of extracting information from it. Full participation in chemistry department's seminar program is required.
Prerequisites: CHEM 230 or equivalent course; instructor's permission.
Corequisite: CHEM 231.

CHEM 498
SENIOR LABORATORY 3.0
Multi-disciplinary laboratory study of the synthesis, separation, and characterization of chemical compounds.
Prerequisites: CHEM 311, 341, 343.

CHEM 499
UNDERGRADUATE RESEARCH 1.0-3.0
Laboratory work on a specific problem in chemistry under guidance of a faculty sponsor.
Prerequisite: 27 hours in chemistry and permission of instructor.

Classics

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Timothy Renner

Classics encompasses the language, literature, philosophy, history, art, religion, and daily life of the ancient Mediterranean world as seen through texts and artifacts. The different branches of classical studies have important contributions to make to the education of students and to the way contemporary culture views itself. The study of Latin and Greek, which have contributed so much to the development of modern European languages, fosters a sense of how language works and demonstrably hones the verbal skills of the English speaker. Classical literature and philosophy, even when studied in translation, provide exemplary opportunities to examine the great issues of human behavior and ethics which form the core of the humanities. The arts in the Greco-Roman world are both seminal for the later Western tradition and of great intrinsic significance as part of their own culture.

Classical studies are an excellent foundation for a wide variety of careers, including law, business, medicine, journalism, diplomacy, teaching and many others. The department offers three major programs leading to the Bachelor of Arts degree: Classics, a broad major in ancient civilization; Latin, which emphasizes literature in the original language and includes work in Greek; and Latin (Teacher Education), which leads to teacher certification in New Jersey. Minors in Classics, Latin, Greek, and (with the cooperation of other departments) archaeology are also available. Students going on to graduate school in classics may need to take additional work in the languages and should consult the department about this.

Classics Major

Required Courses

	Semester Hours
GNHU 281 Greek Civilization	3
GNHU 282 Roman Civilization	3

Electives (Major)

A. Select 5 courses from Latin (LATN) and (GREK), including at least one course at the 200 level or above* 15
B. Select 12 semester hours (including at least two classical studies topics courses) from the appropriate list to be obtained from the department 12
Total Semester Hours: **33**

Latin Major

Required Courses

	Semester Hours
GREK 101,112 Beginning Greek I, II	6
6 Latin language and literature courses at the 200 level or above, including at least two of the following: LATN 201 Latin Literature of the Republic, LATN 202 Latin Literature of the Golden Age, LATN 203 Latin Literature of the Silver Age*	18

Electives (Major)

Select 3 courses from departmental list. GNHU 281 Greek Civilization, GNHU 282 Roman Civilization, and other GNHU courses dealing with ancient history, archaeology, and classical civilization are especially recommended 9
Total Semester Hours: **33**

Latin Major
(Teacher Education)

Required Courses

6 Latin language and literature courses at the 200 level or above, including at least two of the following: LATN 201 Latin Literature of the Republic, LATN 202 Latin Literature of the Golden Age, LATN 203 Latin Literature of the Silver Age* 18
LATN 419 Methods of Teaching Latin 3

Electives (Major)

Select 4 courses from departmental list (GREK 101, 112 Beginning Greek I, II; GNHU 281 Greek Civilization; and GNHU 282 Roman Civilization are especially recommended) 12
*Latin courses at the 200 level and above are taught on a four-year cycle.
Total Semester Hours: **33**

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Second Teaching Field in Latin

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers' Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

Latin Minor

Students will take 18 semester hours in Latin language and literature (LATN), to be chosen in consultation with a faculty advisor from the department.

Greek Minor

Students will take 18 semester hours in Greek language and literature (GREK), to be chosen in consultation with a faculty advisor from the department.

Classics Minor

Students will take 18 semester hours in the department.

Courses of Instruction

Classical Civilization and Humanities
(All courses taught in English)

GNHU 181
INTRODUCTION TO CLASSICAL ARCHAEOLOGY 3.0
The science of evaluating Greco-Roman and closely related cultures through observation and analysis of their physical remains. Problems and methods of dating artifacts and sites. Building materials, types, and decorations. Field trip in addition to illustrated lectures and discussions. Meets the General Education Requirement—Social Science, Topic Course.

GNHU 182
ENGLISH VOCABULARY: CLASSICAL ROOTS 3.0
Systematic development of the student's knowledge of English vocabulary through study of the most important Greek and Latin roots, prefixes, suffixes, and other elements and the ways in which they are used to form works in English.

GNHU 281
GREEK CIVILIZATION 3.0
The political, social, economic, and cultural history of the Greek world from the Bronze Age to the Roman conquest as seen through literary, documentary and archaeological courses. (Also listed under History as HIST 281). Meets the General Education Requirement—Social Science, American/European History.

GNHU 282
ROMAN CIVILIZATION 3.0
The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary, and archaeological sources. (Also listed under History as HIST 282.)
Meets the General Education Requirement—Social Science, American/ European History.

GNHU 285
MYTHOLOGY 3.0
The nature and interpretation of Mythology, primarily as seen through the myths of Greece and Rome. Selected comparative study of myths of the Near East, Iran, India and other cultures. Meets the General Education Requirement - Humanities, General Humanities.

GNHU 351
THE CITY IN ANTIQUITY 3.0
Cities and city-based culture in the Greek and Roman world seen through the evidence of archaeology, literary sources, and contemporary documents such as inscriptions. Town planning, economic life, social groups, and population patterns in selected ancient cities.

GNHU 375
STUDY ABROAD 3.0
Approved study-travel program at selected universities, classical sites, museums. (Also listed as LATN 375.) Credit by evaluation.

GNHU 383
WOMEN IN ANTIQUITY 3.0
Women in the ancient world and their contributions to history, literature, philosophy and the arts. Emphasis on Greco-Roman Civilization, with comparative study of other ancient cultures. Meets the Minorities Culture Requirement.

GNHU 384
INTRODUCTION TO ROMAN LAW 3.0
The role of law in Roman history and society. Social structure and Family Law. The law and slavery. Property, contracts, and delicts. Legal forms, legal fictions, and the response of law to new conditions. Roman law in the medieval and modern periods.

GNHU 385
GREEK TRAGEDY 3.0
Selected plays of Aeschylus, Sophocles and Euripides read in English translation; origins of Greek drama, religion and myth in tragedy, the tragic hero, stage production, influence on modern literature.

GNHU 396
ANCIENT HISTORIANS 3.0
Selected passages from Herodotus, Thucydides, Xenophon, Polybius, Cassius Dio, Livy and Tacitus for critical analysis; assessing authenticity and objectivity while discussing the art of historiography.

GNHU 452
AUGUSTINE 3.0
Selection from Confessions, City of God and the letters; intellectual development and philosophical and theological speculations of Augustine in the framework of the late Roman Empire.

GNHU 454
LUCRETIUS AND ANCIENT SCIENCE 3.0
Reading of De Rerum Natura with study and discussion of the relation of science and philosophy in antiquity; Greek schools of thought and Roman interpretation of Hellenistic ideas.

GNHU 470
SEMINAR IN CLASSICAL HUMANITIES 3.0
Topic to be selected according to faculty and student interest and developed through an interdisciplinary approach.
Prerequisite: Permission of department.

Greek

GREK 101
BEGINNING GREEK I 3.0
The fundamentals of ancient Greek grammar. Reading of simple texts. Meets the General Education Requirement - Foreign Language.

GREK 112
BEGINNING GREEK II 3.0
The continuation of beginning Greek I. The fundamentals of grammar and reading of selected texts. Meets the General Education Requirement - Foreign Language.
Prerequisite: GREK 101 or equivalent.

GREK 121
INTERMEDIATE GREEK I 3.0
Review of grammar. Selected readings from Greek prose and poetry. Meets the General Education Requirement - Foreign Language.
Prerequisite: GREK 112 or equivalent

GREK 132
INTERMEDIATE GREEK II 3.0
Review of grammar. Selected readings from Greek prose and poetry. Meets the General Education Requirement - Foreign Language.
Prerequisite: GREK 121 or equivalent.

GREK 261
GREEK NEW TESTAMENT 3.0
Selected readings from the New Testament with attention to historical context and to the nature and development of Koine Greek.
Prerequisite: GREK 132 or equivalent.

GREK 262
GREEK EPIC POETRY 3.0
Representative selections from the Iliad and Odyssey. Homer as an oral poet.
Prerequisite: GREK 132 or equivalent.

GREK 351
ATTIC ORATORS 3.0
Representative works of Lysias, Isocrates, Demosthenes, and others. The orators as stylists and as a source for political and social history.
Prerequisite: GREK 132 or equivalent.

GREK 352
GREEK TRAGEDY 3.0
Selected plays of Aeschylus, Sophocles, and Euripides. The metrics, style, themes, and structure of attic tragedy. The influence of the Greeks on western drama.
Prerequisite: GREK 132 or equivalent.

GREK 361
GREEK HISTORIANS 3.0
Readings from Herodotus, Thucydides, and Xenophon. The development of Greek historiography as a literary genre and as a medium for reporting events.
Prerequisite: GREK 132 or equivalent.

GREK 451
GREEK PHILOSOPHERS 3.0
Selected readings, especially from Plato's dialogues concerning the trial and death of Socrates. The Greek philosophical tradition and its development in the archaic and classical periods.
Prerequisite: GREK 132 or equivalent.

GREK 452
GREEK LYRIC POETS 3.0
Readings from the principal lyric, iambic, and elegiac poets, primarily those of the Archaic Period. The development of theme, structure, and metre.
Prerequisite: GREK 132 or equivalent.

Latin

LATN 101
BEGINNING LATIN I 3.0
The fundamentals of classical Latin grammar. Reading of simple Latin texts. Meets the General Education Requirement - Foreign Language.

LATN 112
BEGINNING LATIN II 3.0
The continuation of beginning Latin I. Fundamentals of Latin grammar and reading of selected texts. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 101 or equivalent.

LATN 121
INTERMEDIATE LATIN I 3.0
Review of grammar. Selected readings from Latin prose and poetry. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 112 or equivalent.

LATN 132
INTERMEDIATE LATIN II 3.0
Review of grammar. Selected readings from Latin prose and poetry. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 121 or equivalent.

LATN 201
LATIN LITERATURE OF THE REPUBLIC 3.0
A historical survey of the highlights of Latin literature from its beginnings to the death of Cicero. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 132 or equivalent.

LATN 202
LATIN LITERATURE OF THE GOLDEN AGE 3.0
A historical survey of the highlights of Latin literature from the second triumvirate through the early Julioclaudian period. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 132 or equivalent.

LATN 203
LATIN LITERATURE Of THE SILVER AGE 3.0
A historical survey of the highlights of Latin literature from the Neronian period through the second century of the Christian era. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 132 or equivalent.

LATN 204
LATIN LITERATURE OF THE MIDDLE AGES 3.0
The highlights of Latin literature from the disintegration of the Roman Empire in the west to the beginning of the Renaissance. Selections from poetry, history, philosophy, theology, and popular literature will be read with attention to style, development of the language, and historical context.
Prerequisite: LATN 132 or equivalent.

LATN 251
ROMAN LETTER WRITING 3.0
The public figure and the private citizen seen through the letters of Cicero and Pliny. The letters as evidence for Roman political and social history.
Prerequisite: LATN 132 or equivalent.

LATN 252
ROMAN DRAMA 3.0
Selected comedies of Plautus and Terence with attention to style, form, dramatic technique, and literary ancestry. The influence of Roman comedy on subsequent European drama.
Prerequisite: LATN 132 or equivalent.

LATN 253
THE EPIC AND VERGIL 3.0
Readings primarily from the Aeneid but including selections from the Georgics and Eclogues. Vergil as a literary artist and his role in the development of the epic in western literature.
Prerequisite: LATN 132 or equivalent.

LATN 254
ROMAN LYRIC POETRY 3.0
Readings from the lyrics of Catullus and Horace, with particular emphasis on style, themes, and metrics.
Prerequisite: LATN 132 or equivalent.

LATN 255
OVID 3.0
Selections from Ovid's works, principally the *Metamorphoses Ars Amatoria, Amores, and Heroides*. Ovidian style, humor, and use of literary myth. Ovid's influence on literature and the arts.
Prerequisite: LATN 132 or equivalent.

LATN 284
CICERO AND ANCIENT PHILOSOPHY 3.0
Cicero's philosophical essays with special attention to his role as a transmitter of Greek philosophy to the Roman and later western world.
Prerequisite: LATN 132 or equivalent.

LATN 310
LATIN COMPOSITION 3.0
Practice in writing Latin prose in conjunction with review of grammar. Readings in selected Latin authors with a view toward acquiring familiarity with different prose styles.
Prerequisite: LATN 0132 or equivalent.

LATN 351
ROMAN HISTORIANS 3.0
Selected readings from Sallust, Livy, and Tacitus. The development of Roman historiography in the context of Roman history and the Greek historiographical background.
Prerequisite: LATN 132 or equivalent.

LATN 352
ROMAN SATIRE 3.0
Readings from Horace, Juvenal, Petronius, and others. Different forms and definitions of satire. The Latin contribution to satire in western literature.
Prerequisite: LATN 132 or equivalent.

LATN 361
CAESAR: THE END OF THE REPUBLIC 3.0
Selected readings from the *De Bello Gallico* and *De Bello Civili*. Caesar as a politician, general, man of letters, and historical source on his own conquests.
Prerequisite: LATN 132 or equivalent.

LATN 375
STUDY ABROAD 3.0
Approved study-travel program at selected universities, classical sites, museums. Also listed as GNHU 375. Credit by evaluation.

LATN 410
ADVANCED LATIN GRAMMAR 3.00
Linguistic analysis of Latin grammar based on examples from classical authors. Practice in writing Latin prose.
Prerequisite: One Latin course at the 200 level or above; or permission of instructor.

LATN 419
METHODS OF TEACHING LATIN 3.0
The history of methodology together with new approaches and techniques. The development of a Latin curriculum, including evaluation of textbooks and construction of lesson plans, reviews, and tests.
Prerequisite: Three Latin courses at the 200 level or above.

LATN 445
LINGUISTIC HISTORY OF THE LATIN LANGUAGE 3.0
Latin and its position in the Indo-European family; the evolution from the spoken to the literary, to the vulgar, to the Christian; characteristics of the periods exemplified in the language; transitional features in the phonology, morphology, and syntax.

LATN 470
SENIOR SEMINAR 3.0
Independent study pursued on a theme in depth by contractual arrangement.

LATN 478
ADVANCED LATIN READINGS: SELECTED TOPICS 3.0
Intensive reading and critical study of a selected author, genre, period, or theme in Latin literature. Topic to be announced each semester. May be repeated for credit with different topics.
Prerequisite: Permission of the department.

Communication Sciences and Disorders

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Warren E. Heiss

The undergraduate curriculum in communication sciences and disorders provides a foundation for professional specialization at the master's level. Students progress through a sequence which emphasizes the normal use and development of speech, hearing and language. Subsequent courses consider the nature of communication disorders and principles related to their management. Supervised clinical experience with children and adults presenting communication disorders is available in the on-campus Communication Disorders Center.

The undergraduate program is designed to prepare students to enter master's level training. The master's degree is a requirement for all employment in the field of communication disorders.

On completing the undergraduate curriculum, students may pursue graduate study and concentrate in speech-language pathology, audiology, learning disabilities, or early childhood special education. A post-baccalaureate certification program in teacher of the handicapped is available. The undergraduate and graduate programs in communication sciences and disorders prepare the student to fulfill the requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association and for the N.J. licenses in speech-language pathology and audiology.

Communication Sciences and Disorders Major

Required Courses

			Semester Hours
CS&D	100	Fields of Communication Sciences and Disorders	3
CS&D	103	Fundamentals of Voice and Speech Production*	3
CS&D	201	Perspectives on Communication	3
CS&D	204	Phonetic Study of Speech Sounds	3
CS&D	208	Anatomy and Physiology of Speech and Hearing Systems	3
CS&D	309	Voice and Articulation Disorders	3
CS&D	368	Clinical Procedures in Audiology	3
CS&D	383	Language Development and Language Disorders	3
CS&D	386	Communication Disorders: A Special Education Perspective	3
CS&D	410	Neurophysiological Bases of Disorders of Communication	3
CS&D	412	Clinical Process and Procedures in Speech-Language Pathology	3
CS&D	461	Introductory Practicum in Communication Disorders	3
CS&D	462	Intermediate Practicum in Communication Disorders	3

*Fulfills speech communications requirement for majors.

Note: Child Psychology, PSYC 201, will be required of all students. Majors are urged to take Psychology of Exceptional Children and Youth to complete the state certification requirement.

Electives

Select courses from the appropriate list to be obtained from the departmental advisors.

Teacher Certification

Speech-Language Specialist Certificate

Candidates for the Speech-Language Specialist Certificate are required to take the following courses which are offered by the Department of Curriculum and Teaching:

Undergraduate level
CURR 400 Teacher, School and Society
CURR 435 Effective Teaching/Productive Learning

Graduate Level
CURR 411 Supervised Student Teaching
CURR 402 Seminar in Professional Education

Students should consult the department advisor for additional information about these requirements.

Courses of Instruction

CS&D 100
FIELDS OF COMMUNICATION SCIENCES AND DISORDERS 3.0
An orientation to practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties.

CS&D 101
FUNDAMENTALS OF SPEECH: COMMUNICATION REQUIREMENT 3.0
Understanding the process of oral communication and improving personal skills in speaking and listening. Developing clear, effective comprehension and expression of the spoken American-English language. Meets the General Education Requirement - Communication, Speaking/Listening.

CS&D 103
FUNDAMENTALS OF VOICE AND SPEECH PRODUCTION 3.0
Theory and practice of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills.

CS&D 201
PERSPECTIVES ON COMMUNICATION 3.0
An overview of a variety of symbol systems used in communication through the perspectives of several related disciplines. Emphasis is given to the significance of the thought-language relationship, to the concerns of semantics and pragmatics, and to cross-cultural issues.

CS&D 204
PHONETIC STUDY OF SPEECH SOUNDS 3.0
The articulation of sounds of American English, developing an understanding of articulatory features using the international phonetic alphabet.

CS&D 208
ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING SYSTEMS 3.0
The anatomical and physiological bases of respiration, phonation, articulation and resonation. The anatomy and physiology of the auditory mechanism.

CS&D 309
VOICE AND ARTICULATION DISORDERS 3:0
Voice and articulation problems of pre-school and school-age children. Strategies, techniques and materials for evaluation and remediation.
Prerequisites: CS&D 100, 103, 204, 208.

CS&D 368
CLINICAL PROCEDURES IN AUDIOLOGY 3.0
The measurement of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical and educational referral. Demonstrations and supervised practice testing.
Prerequisite: CS&D 208.

CS&D 383
LANGUAGE DEVELOPMENT AND LANGUAGE DISORDERS 3.0
An overview of semantic, syntactic, and pragmatic problems that occur in children. Introduction to language sampling and other assessment techniques and procedures for remediation.

CS&D 386
COMMUNICATION DISORDERS: A SPECIAL EDUCATION PERSPECTIVE 3.0
An examination of the influences in educational practices used with individuals who have developmental and/or communicative disabilities. Historical, legal, developmental, and instructional forces are explored. Career options as well as issues and trends in special education are addressed.

CS&D 410
NEUROPHYSIOLOGICAL BASES OF DISORDERS OF COMMUNICATION 3.0
Study of the neuroanatomy, neurology and neuropsychology of communication disorders. Clinical speech-language syndromes associated with medical conditions, brain and metabolic dysfunctions in children and adults. Aspects of pediatric and neurological evaluations to determine etiology of a disorder.
Prerequisites: CS&D, 100, 204, 208, 309, 383.

CS&D 412
CLINICAL PROCESS AND PROCEDURES IN SPEECH-LANGUAGE PATHOLOGY 3.0
An orientation to clinical practice. A model of the clinical process is presented which interfaces the interpersonal relationship with professional/technical competencies. Consideration is given to planning treatment programs, traditional and augmentative clinical approaches, therapeutic activities/materials, and clinical reporting.
Prerequisites: CS&D 309, 410.

CS&D 461
INTRODUCTORY PRACTICUM IN COMMUNICATION DISORDERS 3.0
Supervised clinical practice with children and adults presenting a variety of communication disorders.
Prerequisites: CS&D 309, 383, 410, 412.

CS&D 462
INTERMEDIATE PRACTICUM IN COMMUNICATION DISORDERS 3.0
To provide students with initial experiences in offering clinical services to communicatively handicapped clients in the on-campus communication disorders center.
Prerequisites: CS&D 309, 383, 412, 461.

Counseling, Human Development and Educational Leadership

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Arlene King

Students enrolled in one or more courses offered by the Department of Counseling, Human Development and Educational Leadership will broaden their knowledge and skills in the areas of communication, careers, leadership abilities training, value clarification, group and/or team building and interpersonal interaction. These courses, with the general aim of building foundations for a life open to learning and enrichment, are designed to serve students from varied fields and interests. Four of these courses—Group Dynamics, Personal Values, Career Consciousness, and Dynamics of One-to-One Communication—are General Education Requirement possibilities. Among other courses offered by the department are those dealing with counseling techniques used in the alcoholism recovery process.

For those students wishing to further supplement their chosen major and professional development, an 18-credit Human Services Minor has been developed. This minor will help students increase their communication skills to be used in their own areas of specialization, as well as better comprehend theoretical foundations of both group and one-to-one interaction. They will facilitate the acquisition of skills, knowledge and self-confidence necessary to become more effective leaders and helping professionals.

This department also offers Masters' degrees with specializations involved in guidance, counseling, human services, school social work, school administration and supervision, and organizational training.

Human Services Minor

Required Courses

			Semester Hours
COUN	331	Group Dynamics	3
COUN	330	Dynamics of One-to-One Communication	3
COUN	329	Theories and Techniques of Group Process	3
COUN	434	Facilitating the Interactive Process II	3

Electives

Select 6 semester hours in consultation with and approval of the advisor in Counseling, Human Development and Educational Leadership.

Courses of Instruction

COUN 328
PEER COUNSELING 3.0
This course provides the student with actual peer counseling experience. This experience takes the forms of one-to-one and group counseling. The student will experience the counseling process both as a counselor and as a client.

COUN 329
THEORIES AND TECHNIQUES OF GROUP PROCESSES 3.0
Given that we function in groups of all sizes and of various purposes throughout life, this course provides an understanding of the underlying dynamics of groups and provides the opportunity to relate the theories of group development to the actual group process.

COUN 330
DYNAMICS OF ONE-TO-ONE COMMUNICATION 3.0
This course is designed to examine the dynamics of one-to-one communication through readings and experientially. The course will further develop personal goals for optimizing personal communication and assist in establishing strategies for the attainment of these goals. Meets the General Education Requirement - Electives, Personal/Professional Issues.

COUN 331
GROUP DYNAMICS 3.0
This course is a seminar laboratory experience designed to facilitate human relationships. Focus is on individual behavior in groups. Participation in actual group process provides opportunity for development of insight into the effects of one's behavior on others. Meets the General Education Requirement - Electives, Personal/Professional Issues.

COUN 332
ACTION APPROACHES TO PERSONAL AWARENESS 3.0
Designed to increase personal awareness and to assist in developing skills needed to maximize individual growth in human interaction. Through the use of psychodrama and order action oriented techniques, students will have the opportunity to experience and develop strategies for working beyond barriers to effective interaction.

COUN 333
LEADERSHIP TRAINING 3.0
This course will demonstrate and utilize the special skills required for effective leadership.

COUN 413
INTRODUCTION TO NEUROLINGUISTIC PROGRAMMING AND ERICKSONIAN TECHNIQUES 3.0
A laboratory based course which will introduce students to the history, theory and applications in the field of NLP and Ericksonian techniques. Prerequisite: COUN, 329, its equivalent or permission of instructor.

COUN 430
INTERACTION ANALYSIS 3.0
The purpose of this course is to help participants become more objective in their observations and reporting of interactions which they witness or in which they participate. Various observational tools and methods will be used in the gathering of objective data on three kinds of interaction (interpersonal, small group, and classroom).

COUN 432
PERSONAL VALUES 3.0
Designed to help each participant undertake a personal exploration of his own values, what they are and how he got them, and then consider alternatives available. Meets the General Education Requirement - Electives, Personal/Professional Issues.

COUN 433
FACILITATING THE INTERACTIVE PROCESS I 3.0
Through observation, lectures, seminars and readings, students will gain understanding of the influence of norms, leadership styles, peers, and other factors on the development of a cohesive group. This experience is preparation for working facilitatively in small groups.

COUN 434
FACILITATING THE INTERACTIVE PROCESS II 3.0
This course provides the opportunity for students to gain much practical experience in leading groups. Students will be expected to co lead groups with staff members and be available to assist in all learning endeavors.

COUN 450
INTRODUCTION TO ALCOHOLIC COUNSELING 3.0
This course provides the opportunity for students to have practical experience in counseling the recovering alcoholic. Students will gain an understanding of the etiological factors of alcoholism and their implications for counseling. They will experience the specialized techniques used in counseling the recovering alcoholic.

COUN 451
COUNSELING THE RECOVERING ALCOHOLIC 3.0
A comprehensive survey of concepts and complexities generic to alcohol related dysfunctions. The course investigates contemporary counseling theories and practices compatible with the pathology of the alcoholic. Emphasis is on helping prospective human service professionals develop behavioral skills germane to appropriate counseling intervention.
Prerequisite: COUN 450

COUN 452
PRACTICUM IN ALCOHOLISM COUNSELING 3.0
This course provides students with a supervised practicum in a human service agency which treats alcoholics. Under supervision of a certified counselor, they will observe and participate in the agency activities. Students will also examine the interactions of other health professionals, community resources and services available to the client in his/her recovery.
Prerequisites: COUN 450, 451.

COUN 453
FIELD WORK IN ALCOHOLISM COUNSELING 3.0
This course will integrate student learnings in counseling the alcoholic. Students will re-examine major counseling theories in alcoholism and will also plan and implement counseling sessions under supervision.
Prerequisites: COUN 450, 451, 452.

COUN 454
COMMUNITY RESOURCES FOR ALCOHOLISM COUNSELING 3.0
Study of the methods and approaches used in alcoholism counseling in the community. There will be an exploration of resources that are available. Federal, state and local efforts to help the recovering alcoholic will be examined to provide students with knowledge of available resources in the field.
Prerequisite: COUN 450.

COUN 481
THE LEGAL RIGHTS OF WOMEN 3.0
This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of affirmative action, civil rights legislation and titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered. Meets the Minorities Culture Requirement.

COUN 482
CAREER CONSCIOUSNESS 3.0
This is a course in career skills that integrates schematic human relations training and problem solving techniques with the definition of career goals. The ultimate aim is to facilitate your successful exit from college. Meets the General Education Requirement - Electives, Personal/Professional Issues.

Curriculum and Teaching

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Susie B. Boyce

Teaching has been called the immortal profession because of the impact it has on any society. The mission of the department of Curriculum and Teaching is the professional education of public school teachers. Its faculty offers courses the professional education sequence. Special care has been taken in the development of the field experience courses. In order to support the continuing professional growth of teachers, there are programs and courses at the graduate level.

The Teacher Education, Post-Baccalaureate Certification, Master of Arts in Teaching Degree and Master of Education Degree programs are described elsewhere in this catalog (see index).

Courses of Instruction

CURR 100
COLLEGE LEARNING AND THINKING SKILLS 3.0
Course is designed to provide freshmen in the student tutorial program with a learning environment in which to develop the cognitive and affective strengths needed for college success. The course offers opportunities to become inquisitive, competent, and confident learners. Cross listed with READ 100

CURR 200
INITIAL FIELD EXPERIENCE 1.0
An introductory course in the professional education sequence. Classroom instruction and visits to public schools will provide students the opportunity to examine public education from a professional perspective. (This course is required before full admission to Teacher Education.)

CURR 400
TEACHER, SCHOOL AND SOCIETY 3.0
An overview of the field of education, includes a consideration of instructional, curricular, legal and professional issues affecting teachers, schools and society as well as implications for students.

CURR 401
SENIOR FIELD EXPERIENCE 1.0
The course will provide students with an understanding of and ability to conduct "action research" in school settings during the Professional Semester. The student will choose one option (Curriculum Sequence Study, Teacher Effectiveness Research, or Materials Analysis) for a student project to be carried out in conjunction with Student Teaching.

CURR 402
SEMINAR IN PROFESSIONAL EDUCATION 1.0
Part of the professional semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to find practical solutions to problems experienced. Placement in professional semester field center. Course only open to student teachers.
Prerequisite: CURR 410

CURR 409
TEACHING FOR CRITICAL THINKING 3.0
Designed for pre-service teacher to foster critical thinking in and about the disciplines they will teach. Emphasis will be placed on the processes of thinking in general, on the nature of critical thinking, on classroom conditions which promote critical thinking, on metacognition, whereby students will be encouraged to be conscious of their own thinking and on methods for assessing the quality of students' thinking. Crosslisted with EDFD 409 and READ 409.
Prerequisites: Completion of initial field experience, educational psychology courses as well as formal admission to the Teacher Education Program.

CURR 410
INTERMEDIATE FIELD EXPERIENCE IN EDUCATION 1.0-3.0
Thirty hours per credit in a public school as assistant to the classroom or subject teacher. Observing, working with individuals and small groups of students, helping with clubs and student activities, teaching 'mini-lessons' and becoming familiar with teacher activities. Each student keeps a log of activities. Class meetings on campus during the experience are arranged.
Prerequisite: Admission to teacher preparation program. Obtain course application from the school of professional studies office of Teacher Education prior to registration for course.

CURR 411
SUPERVISED STUDENT TEACHING 8.0
Student teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements. Part of professional semester.

CURR 412
FIELD WORK IN URBAN EDUCATION 1.0-3.0
Similar to CURR 410 with emphasis on tutoring and individual conferences in urban public school. Student keeps a log of activities. Class meetings on campus.
Prerequisite: Admission to teacher preparation program. Obtain course application from the School of Professional Studies office prior to registering for course. Meets the Minorities Culture Requirement.

CURR 413
FIELD WORK IN COMMUNITY AGENCIES 1.0-3.0
Thirty hours of guided experiences in public and private agencies. Objectives, scope and activities of agencies related to education. Preparation of report as specified on application form and log of activities. Class meetings on campus during the experience are arranged.

CURR 414
IN-SERVICE SUPERVISED TEACHING I 4.0
Replaces supervised student teaching for those employed in teaching situations without standard certification. Joint supervision by the school district and college personnel. Student must have permission of department chairperson and the school district.
Corequisite: CURR 402.

CURR 415
IN-SERVICE SUPERVISED TEACHING II 4.0
Continuation of In-service Supervised Teaching I; the corequisite seminar is replaced by a series of special in-service conferences included in the course.
Prerequisite: CURR 414.

CURR 417
MUSIC EDUCATION SUPERVISED STUDY I 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight credits required for certification. Limited to Music majors.
Prerequisite: Admission to Teacher Education Program. Registration with Student Teaching Office.

CURR 418
MUSIC EDUCATION SUPERVISED STUDY II 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight semester hours required for certification. Limited to music majors.

CURR 420
INSTRUCTIONAL INNOVATIONS 3.0
New ways of organizing students, staff, curriculum, time and space, as well as independent study, group dynamics, programmed instruction and student evaluation.

CURR 421
SEMINAR PROBLEMS OF A CLASSROOM TEACHER 1.0-3.0
Reviewing, evaluating and relating teacher aide and student teaching experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptions in techniques and practices. Should be taken concurrently with or immediately after experiences.
Prerequisite: Departmental permission.

CURR 423
TEACHING IN URBAN SCHOOLS 3.0
Focuses on factors affecting teaching and learning in urban schools. Topics include the nature and structure of urban schools, recent innovations in urban settings, mores and family patterns in the inner city, and funding opportunities. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

CURR 425
CURRICULUM AND INSTRUCTION FOR AFFECTIVE EDUCATION 3.0
Place of approaches to feeling, emotion, valuing, concern and process phenomena in the curriculum. The student will acquire: (a) a familiarity with theory and practice of curricular design and instruction for affective education, (b) a facility in the application and evaluation thereof, and (c) a capacity for the development of original models. Micro-teaching, simulation, workshops and representative affect classroom procedures will be utilized extensively.
Prerequisite: 200.

CURR 430
ELEMENTARY SCHOOL CURRICULUM 3.0
Characteristics of young learners, the source, nature and function of curriculum goals, types of elementary school administrative organization, the relationship of curricular patterns and classroom procedures, modern subject matter areas, audio-visual aids, testing, and reporting to parents may be included. Field trips and simulation materials.

CURR 431
JUNIOR AND MIDDLE HIGH SCHOOL CURRICULUM 3.0
Current movements in the programs of intermediate schools. Representative practices and the rationale of the junior high school; innovations in middle schools; developing courses of study or units of work.

CURR 435
EFFECTIVE TEACHING/PRODUCTIVE LEARNING 2.0
The course is designed for students preparing for and subsequently participating in the teaching internship. It will develop basic teaching skills which the research literature indicates are related to productive learning outcomes. The skil' areas are those of communication, motivation, classroom discipline, learning and cognitive development, media usage, multi-cultural education, curriculum, and evaluation and practical research. Part of the professional semester.
Prerequisites: Majors only; senior standing; PSYC 200; departmental methods course; field work.

Economics

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Phillip LeBel

Economics is the study of how market and nonmarket institutions can best allocate relatively scarce resources to promote individual and social welfare. As such, it offers well-defined mechanisms for analyzing a wide array of theoretical and policy-oriented issues. The curriculum is designed to contribute to a broadly-based liberal arts education by expanding a student's perception of the economic decisions that individuals and societies must make under widely varying conditions. Strong emphasis is given to the development of skills in analytical reasoning, quantitative fluency, written and oral communications, as well as creative excellence.

In addition to preparing students for direct career experience in business, government and the professions, the department provides solid preparation for graduate work in Economics as well as in related disciplines. With faculty also involved in the M.B.A. and the Economics Concentration of the M.A. in Social Sciences, in academic research and community service, the undergraduate B.A. in Economics program benefits from the skills of highly experienced professionals.

Economics Major

Required Courses:

			Semester Hours
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3
ECON	203	Economic Statistics	3
ECON	207	Intermediate Microeconomic Analysis	3
ECON	208	Intermediate Macroeconomic Analysis	3
ECON	420	Econometrics	3

Students who wish to major in Economics must meet the following departmental admissions criteria: 1. a cumulative grade point average (GPA) of 2.75 or better in a minimum of 12 credits taken at Montclair State College or an accredited equivalent; 2. a 2.50 combined minimum GPA for completion of the following two courses, or equivalents: ECON 101 Principles of Economics: Macro, and ECON 102 Principles of Economics: Micro; 3. a 3.00 combined minimum GPA for any two courses from the following Social Science disciplines, or equivalents: Anthropology; Environmental, Urban and Geographic Studies; History; Political Science; Psychology; Sociology; 4. a 2.00 minimum GPA for completion of the following two courses, or equivalents: i. MATH 113 Mathematics for Business I: Linear Algebra; II. MATH 114 Mathematics for Business II: Calculus.

Graduation in Economics requires that a student complete a total of 33 credits in the major. In addition, a student must complete BEOS 320 Business Communications. Additional information on freshman, transfer, and readmission standards, course updates, scheduling sequences, departmental honors, and graduation requirements are found in the **Guide to the Department of Economics** handbook.

Electives

Select 15 semester hours from the appropriate list to be obtained from the department.....15

Economics Minor

The department maintains a minor program for all majors at the college. It involves the completion of 18 semester hours from the departmental courses, 6 of which should be Principles of Economics: Macro and Principles of Economics: Micro.

Courses of Instruction

ECON 100
INTRODUCTION TO ECONOMICS 3.0
Major objectives and features of the American economy, including operations of a market economy, structure and function of business, money and banking, government and business relations. For non-majors only. May not be taken after ECON 101 and/or ECON 102 have been taken. Meets the General Education Requirement - Social Science, Survey Course.

ECON 101
PRINCIPLES OF ECONOMICS: MACRO 3.0
A study of the American economy, analytically and institutionally; the achievement of an optimal allocation of resources, price stability, full employment level of national income and long term growth. Meets the General Education Requirement - Social Science, Survey Course.

ECON 102
PRINCIPLES OF ECONOMICS: MICRO 3.0
Organization and operation of the American economy for the production and distribution of goods and services. Pricing of products and factors of production in market situations varying from competition to monopoly. Resource allocation, price determination and behavior of the firm in the determination of quantity of output and the hiring of factors of production. Meets the General Education Requirement - Social Science, Survey Course.

ECON 203
ECONOMIC STATISTICS 3.0
Basic elements of economics statistics including frequency distribution, sampling, index numbers, statistical inference, regression and correlation techniques.
Prerequisites: ECON 101 and 102 or instructor's permission.

ECON 205
COLLECTIVE BARGAINING: THEORY AND PRACTICE 3.0
The development of collective bargaining in the United States and an analysis of the factors that account for present practices. The impact of collective bargaining on contemporary American life. Work in field.
Prerequisites: ECON 101, 102 or instructor's permission.

ECON 206
MANAGERIAL ECONOMICS 3.0
The application of economic theory in the decision-making processes of the firm; utilization of economic analysis in the study of demand, costs, pricing and capital investment decisions.
Prerequisites: ECON 101, 102, and 203.

ECON 207
INTERMEDIATE MICROECONOMIC ANALYSIS 3.0
The basic determinants of market demand. Input-output relationships in determining cost structure Determination of prices received by resource owners in the productive process. Theory of the firm and pricing in different types of market organization with varying degrees of competitive conditions.
Prerequisites: ECON 101, 102.

ECON 208
INTERMEDIATE MACROECONOMIC ANALYSIS 3.0
The factors comprising aggregate demand and how they interact to determine the level of employment, output and the price level, the role of monetary and fiscal policy.
Prerequisites: ECON 101, 102.

ECON 209
COLLECTIVE BARGAINING IN THE PUBLIC SECTOR 3.0
Course will analyze the sources or growth of collective bargaining in the public sector; examine processes utilized by the parties and evaluate the impact of collective bargaining.
Prerequisites: ECON 101, 102; Instructor's permission; Majors only.

ECON 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
Evolution of economic institutions with emphasis on development of domestic and foreign markets, technological changes and industrial growth. Analysis and interpretation of cyclical changes.

ECON 215
THE ECONOMICS OF SOCIAL PROBLEMS 3.0
The extent, causes and consequences of poverty, inequality and insecurity. An appraisal of reforms, social insurance, medical care, public housing, rural development. The economics of discrimination and educational opportunity. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

ECON 222
ECONOMIC HISTORY OF EUROPE 3.0
The economic life and development of Europe from the Middle Ages to the present, emphasizing the period from about 1750; economic causes that underlie the dislocations and perplexities of the 19th and 20th centuries.

ECON 250
SELECTED TOPICS IN ECONOMICS 3.0
An in-depth study of a particular theoretical or applied area of economics.

ECON 300
WORLD RESOURCES AND INDUSTRIES 3.0
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations. Also listed under Environmental, Urban and Geographic Studies as EUGS 300.

ECON 301
MONEY AND BANKING 3.
An analysis of the economic role of money and credit in our economy with primary emphasis on federal reserve and treasury operations.
Prerequisites: ECON 101, 102.

ECON 303
ECONOMIC GROWTH AND DEVELOPMENT 3.0
Problems of hastening the growth of countries with low incomes per person; the requisites for the economic development, the obstacles to such development, the strategy and tactics of development and aid for development. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.
Prerequisite: ECON 207.

ECON 304
PUBLIC POLICIES TOWARD BUSINESS 3.0
The economic organization of particular American industries. U.S. policy toward competition, monopoly and bigness in business. Government control of public utilities, transportation, radio and television broadcasting.
Prerequisites: ECON 207 or 206.

ECON 308
PUBLIC FINANCE 3.0
The impact of governmental expenditures,taxes and debt operation on resource allocation, income distribution, economic stabilization and economic growth.
Prerequisites: ECON 207 or 206.

ECON 310
URBAN AND REGIONAL ECONOMICS 3.0
The underlying economic forces operating in the urban economy development of the urban economic unit, relationship of the urban economy to the regional and national economy, economic activity within the urban area and the public sector of the urban economy.
Prerequisites: ECON 207 or 206.

ECON 311
LABOR ECONOMICS 3.0
The determinants of wages in the organized and unorganized markets; an historical survey and analysis of the principal institutions and central processes in the labor and manpower areas, an examination of current issues in labor relations.
Prerequisites: ECON 207 or 206.

ECON 312
BUSINESS CIRCLES AND FORECASTING 3.0
Fluctuations in economic activity which characterize modern industrial economies. definitions, descriptions and statistical measurement of business cycles are presented along with theories describing the causes of the cycles. practical application of forecasting techniques to predict the course of future economic and business activity.
Prerequisites: ECON 203 or equivalent, and ECON 208.

ECON 314
DEVELOPMENT OF ECONOMIC THOUGHT 3.0
Broadening and improving the command of modern economic theory by examining the outstanding contributors to economic thought over the past two centuries.
Prerequisites: ECON 101 and 102 or Instructor's permission.

ECON 398
ECONOMICS INDEPENDENT STUDY 3.0
Independent study for juniors and seniors who have developed a special interest as a result of work in a course or who wish to develop their interest through their own guided reading. A member of the economics department guides the student in his research and reading.

ECON 401
FINANCIAL INSTITUTIONS 3.0
The structure and operation of financial institutions, their role in the economy and in the money and capital markets. The techniques and objectives of monetary policy and its effect on financial institutions.
Prerequisites: ECON 208 or 301.

ECON 402
INTERNATIONAL ECONOMICS 3.0
The how, why and consequences of the movement of goods, services and factors of production in international exchange and an examination of the financial arrangements used to facilitate trade.
Prerequisites: ECON 206 or 207.

ECON 403
COMPARATIVE ECONOMIC SYSTEMS 3.0
The economics systems of planned and mixed economies with special emphasis on the Soviet Union, China, the United Kingdom, the Scandinavian countries and the United States. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: ECON 206 or 207 or 208.

ECON 404
INTERDEPENDENCE IN THE GLOBAL ECONOMY 3.0
This course is a one semester introduction to the challenges and opportunities created by the increasing interdependence in the world economy. The emphasis is on empirical explorations of the implications of the core theories of international trade and finance for the U.S. consumer, entrepreneur and policymaker. In addition, some of the current economic issues flowing from our global linkages are examined with a view to assessing the propriety of the fiscal and monetary response.
Prerequisite: ECON 402.

ECON 407
ECONOMICS OF INDUSTRIAL ORGANIZATION 3.0
The causes and effects of structure, size and concentration on competition and market prices.
Prerequisites: ECON 207 or 206.

ECON 410
COMPUTER APPLICATIONS IN ECONOMICS 3.0
This course is designed to use computer concepts in the context of economic applications. Empirical and theoretical aspects of economics are studied. Computer applications are covered in statistics and econometrics, cost-benefit analysis, optimal decision-making input-output economics, and the simulation of economic models. Students apply programming concepts as well as use existing software.
Prerequisites: ECON 101, 102, 203 and either 207 or 208.

ECON 417
MATHEMATICAL ECONOMICS 3.0
Formulation of economic theory in mathematical language. Application of mathematical methods to economic theory and to the derivation of theoretical conclusions.
Prerequisites: ECON 207 or 206, and ECON 208. MATH 114 Mathematics for Business II is recommended but not required.

ECON 418
ECONOMICS OF HUMAN RESOURCES 3.0
Analysis of the role of human resources in the economic.
Prerequisites: ECON 207 or 206.

ECON 419
ECONOMICS OF ENERGY AND ENVIRONMENTAL POLICY 3.0
An examination of the economic, technological, and environmental dimensions of energy policy choices. Emphasis is given to the linkages among various economic models, elementary principles of energy storage and conversion, and specific energy technologies as they apply to past and current energy policy alternatives.
Prerequisites: ECON 207 or 206.

ECON 420
ECONOMETRICS 3.0
An introduction to the techniques of applied economic (Social Science) research. Examination of the tools necessary for applied economic research and methods for dealing with certain problems inherent in economic data. The primary emphasis will be on the application of the techniques to economic data.
Prerequisites: ECON 101, 102, 203 or equivalent course.

ECON 438
ADVANCED SEMINAR IN ECONOMICS 3.0
A seminar designed to enable economics students to develop and discuss important economic ideas with an aim to presenting these in a teaching situation.
Prerequisites: 9 semester hours in Economics and permission of instructor.

ECON 439
ADVANCED SEMINAR IN ECONOMICS: HONORS I 3.0
Define the scope and methodology of the honor project through the presentation of a thesis prospectus. This process will involve preparation of a review of the relevant research literature, specification of an appropriate research methodology, gathering and testing of preliminary data where appropriate, as well as submission of the thesis prospectus to the departmental honors committee.

ECON 440
ADVANCED SEMINAR IN ECONOMICS - HONORS II 3.0
Student will complete all appropriate quantitative and qualitative analysis of Seminar in Economics Honors I as well as prepare a summary and interpretation of their findings. Through discussion of findings, faculty and student will make suggestions for and additional analysis or revisions to be undertaken.
Prerequisite: ECON 439.

ECON 461
SEMINAR IN INTERNATIONAL ECONOMIC GEOGRAPHY 3.0
An interdisciplinary seminar focusing the techniques of economics and geography on a common theme, hopefully, resulting in a synergistic conclusion.
Prerequisite: ECON 101 or 102.

ECON 497
ECONOMICS INDEPENDENT STUDY 3.0
Open to students who wish to undertake reading and/or research in specialized areas of economics.
Prerequisite: Permission of Department chairman.

Educational Foundations

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Thunder Haas

As a society evolves, so does its educational responsibilities. The department meets these changing needs by developing innovative programs through comparative study, and philosophical and sociological theory. In this way, it also services and improves existing programs. The department offers undergraduate and graduate courses for the preparation of public school educators while meeting the specialized demands that are beyond the limits of the public schools. The department's minor in Educational Policy Studies is designed to meet these specialized demands. All of the departments courses serve as a sound background for our graduate M.Ed. concentration in Critical Thinking.

Courses of Instruction

EDFD 220
PHILOSOPHICAL ORIENTATION TO EDUCATION 3.0
Western philosophical heritage as related to the issues and responsibilities of American education. Comparative analysis of past and current ideological movements that influence moral, social, and educational decisions of parents, political leaders, and professional educators. Meets the General Education Requirement - Humanities, Philosophy/Religion.

EDFD 264
SEXISM IN AMERICAN EDUCATION 3.0
Designed to analyze sexism in the American schools with emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement.

EDFD 321
PHILOSOPHICAL AND CULTURAL FOUNDATIONS OF REASONING 3.0
The course provides an introduction to elements of rational thinking from a philosophical and cultural perspective. It gives attention to such matters as inference, hypothesis and generalization as they would be treated in a "modern" society and in a selected number of other cultures. Attention is also given to how such reasoning is useful in professional work.

EDFD 409
TEACHING FOR CRITICAL THINKING 3.0
Designed for pre-service teacher to foster critical thinking in and about the disciplines they will teach. Emphasis will be placed on the processes of thinking in general, on the nature of critical thinking, on classroom conditions which promote critical thinking, on metacognition, whereby students will be encouraged to be conscious of their own thinking and on methods for assessing the quality of students' thinking. Crosslisted with CURR 409 and READ 409.
Prerequisites: Completion of initial field experience, educational psychology and general psychology courses as well as formal admission to the Teacher Education Program.

EDFD 440
SOCIOLOGICAL FOUNDATIONS OF EDUCATION 3.0
The study of education as a major social institution. Social and cultural influences on teachers and learners and factors which affect educational structures, processes, and outcomes. Considers social and cultural influences on teachers and learners; the relationship of culture, role, and personality in the classroom; and the school as a changing system. Meets the General Education Requirement - Social Science, Topic Course.

EDFD 445
PUERTO RICAN CHILDREN IN MAINLAND SCHOOLS 3.0
Introduction to the experiences of Puerto Rican children in mainland schools with particular attention to migration, the Puerto Rican family, Puerto Rican life-styles, cultural identity, cultural pluralism, learning needs, and evolving programs. Includes visits to schools. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

EDFD 449
CURRENT ISSUES IN AMERICAN EDUCATION 3.0
A study of recent initiatives, controversial questions, and current problems which impacted upon the field of education throughout the past decade, as well as an examination of new theories which may change the course of American education in the near future.

EDFD 460
COMPARATIVE EDUCATION 3.0
The meaning of comparative education; differences between educational systems in developed and developing societies. (Developed areas such as western and central Europe-developing areas such as Latin America and tropical Africa).

EDFD 477
ETHNIC/RACIAL GROUPS AND THE SCHOOLS IN AMERICA 3.0
A multidisciplinary study of the meaning and significance of cultural pluralism in the United States. Analyzes problems associated with cultural pluralism and the historical and contemporary sources of those problems, the role of the school in assimilation/acculturation and in affecting social and economic outcomes for various groups, and avenues to improved cross-cultural understanding through education. Meets the General Education Requirement - Contemporary Issues.

English

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Alyce Sands Miller

The English Department offers instruction in interpreting and creating informative and imaginative texts, and in the description and historical understanding of the English and American languages, and in the cultural understanding of world literatures written in English.

Students may major or minor in English, minor in journalism or film, concentrate in creative writing, or obtain a teaching certificate. The English Department participates in the Cooperative Education Program to offer students career oriented work opportunities.

English Major

Required Courses

	Semester Hours
Genre (select one)	
ENGL 260 Art of Poetry	3
ENGL 262 Art of Fiction	3
ENGL 263 Art of Drama	3
Language and Rhetoric* (1 course)	3
American Literature* (2 courses each from a different period)	6
British Literature* (3 courses each from a different period)	9
Comparative Literature* (1 course)	3

*Check with department for appropriate courses.

English Minor

Required Courses

	Semester Hours
Genre: Comparative Literature, Language and Rhetoric (2 courses)	6
American Literature (2 courses)	6
British Literature (2 courses)	6

Journalism Minor

Required Courses

	Semester Hours
ENWR 210 Newswriting	3
ENWR 216 History of Journalism in America	3
ENWR 313 Editing	3

Electives (Three of the following)

ENWR 214 Feature Writing	3
ENWR 300 Meet the Press	3
ENWR 314 Advanced Editing	3
ENWR 315 Magazine Journalism	3
ENWR 316 Reporting of Public Affairs	3
ENWR 416 Interpretive Journalism	3

Creative Writing Concentration

Required Courses

	Semester Hours
ENWR 200 Creative Writing: Fiction, Poetry, Drama	3
Any three of the following:	
ENWR 204 Advanced Expository Writing	3
ENWR 310 Writing: Drama	3
ENWR 311 Writing: Fiction	3
ENWR 312 Writing: Poetry	3
ENWR 411 Advanced Writing: Fiction	3
ENWR 412 Advanced Writing: Poetry	3
ENWR 491 Seminar in Writing	3

Special Programs

English Cooperative Education

The English Cooperative Education program places students with strong writing and analytical skills in supervised employment outside the classroom. The co-op term is a semester during which the student is advised by a faculty coordinator and the Cooperative Education office and completes the terms of a learning contract.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. Prerequisites for admission to the teacher preparation program in English and current requirements in the discipline for both a first and a second teaching field certificate can be obtained in the English department.

Courses of Instruction

ENFL 208
INTRODUCTION TO THE FILM 3.0
The history and aesthetics of film from its beginning to the present, with special attention to the evolution of technique, influential art movements and national cinemas, pivotal directors and films. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ENFL 250
MAJOR FILM DIRECTORS 3.0
Focusing on the life and work of influential filmmakers, the course addresses such issues as auteur criticism, the nature of successful collaborations (scriptwriting teams, director/cinematographer) and performance theory.

ENFL 255
WORLD FILM 3.0
Films from the major film producing countries including the United States, France, Germany, Italy, Sweden, Russia, England, India and Japan. Within that framework, special topics will be defined: A specific period, a particular theme or problem, comparison/contrast of several national cinemas.

ENFL 260
MAJOR FILM GENRES 3.0
Examples from the major film genres, such as the western, the crime film, the musical, the horror film, and film noir, with special emphasis on American film and principles of genre criticism.

ENFL 310
SCREENWRITING I 3.0
The art and craft of writing for the screen will be both studied and practiced. After studying the fundamentals of effective cinematic story construction and dialogue writing, students will be required to write a half hour film script.
Prerequisites: GNHU 208 or ENFL 208 and ARFL 218.

ENFL 350
THREE DIRECTORS 3.0
A comparative study of three major film directors. The focus - using an auteurist derived methodology - will be to investigate a common problem or challenge confronted by each of the three directors.

ENFL 356
THE CONTEMPORARY FILM 3.0
Beginning with American film noir and European films which emerged after World War II, the course traces the major films, directors, critical theories and other influences which make up the contemporary film and define a specifically modernist sensibility.

ENFL 357
AMERICAN FILM TO 1945 3.0
An investigation of the foundations and development of the classical Hollywood style focusing on genres and directors of significance.

ENFL 358
AMERICAN FILM 1945 TO THE PRESENT 3.0
An investigation of filmmaking in the United States following World War II, focusing on the genres, directors and aesthetic movements of significance.

ENFL 360
FILM COMEDY 3.0
Film comedies from all periods in relation to comic theory and its application with particular emphasis on American films of the 20's and 30's.

ENFL 410
SCREENWRITING II
This course is a continuation of Screenwriting I in which each student will work on a major screenwriting project: two one-half hour episodes, an hour long script or a first draft of a feature film. In developing the project, the individual needs of the student will be addressed.
Prerequisite: ENFL 310 and permission of the instructor.

ENFL 490
SPECIAL TOPICS IN FILM STUDIES 3.0
A non-survey course to address specific issues in film studies. The course may be taken more than once if different topics are taken.

ENGL 100
BASIC COMPOSITION 3.0
Instruction in basic writing skills, frequent writing assignments. In addition to regular class meetings, students may be required to attend tutorial sessions over as long a period of time as necessary to raise students' skills to college standards. Placement based on scores in New Jersey College Basic Skills Placement Test. For those placed, this course is prerequisite to ENGL 105.

ENGL 105
FRESHMAN COMPOSITION 3.0
Writing skills and research techniques with frequent writing assignments and a research paper. This course and ENGL 106 are prerequisites for all other English courses. Meets the General Education Requirement - Communication, Writing.

ENGL 106
INTRODUCTION TO LITERATURE 3.0
All forms of literature selected from different periods and cultures. This course and ENGL 105 are prerequisite for all other English courses. Meets the General Education Requirement - Communications, Reading.
Prerequisite: ENGL 105 or equivalent course.

ENGL 139
SOCIAL PROTEST LITERATURE IN AMERICA 3.0
Novels, dramas and poetry of protest against social injustices in the United States since World War I.

ENGL 175
THE VIETNAM WAR EXPERIENCE AND AMERICAN CULTURE 3.0
This course examines the problem of the legacy of the experience of the Vietnam War (sometimes called the "Vietnam Syndrome") as it is reflected in the culture of the United States and primarily in American literature since the end of the war in 1975. Differing discussions and evaluations of the problems bequeathed by the Vietnam War will be examined in works of political commentary, cultural criticism, history, and foreign affairs, as well as in literature. Meets the General Education Requirement - Contemporary Issues.

ENGL 226
LITERATURE OF THE AMERICAN RENAISSANCE 3.0
Moby Dick and *The Scarlet Letter* among other major works by masters of the American Romantic Period—Emerson, Thoreau, Hawthorne, Melville, Whitman and Poe - are examined.

ENGL 234
AMERICAN DRAMA 3.0
American drama chosen for excellence or representative of a significant era or movement in the theatre from the early 18th century imitative works through melodrama to the serious works of the 20th century. Centered on major American playwrights and their work. The course also examines the backgrounds of our modern stage, including readings in minor/historical works.

ENGL 238
AFRO-AMERICAN WRITERS 3.0
Major Afro-American writers from colonial times to the present. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

ENGL 240
ENGLISH LITERATURE I: BEGINNINGS TO 1660 3.0
English literature from its beginnings to 1660 examined through representative works of major and minor authors.

ENGL 241
ENGLISH LITERATURE II: 1660 TO PRESENT 3.0
English literature from the Restoration to the present. May be taken independently of English Literature I.

ENGL 247
THE AUGUSTAN AGE 3.0
Important works of English literature 1660-1745, including poetry, criticism, essays, fiction and drama, examined within the literary, cultural, social and intellectual contexts of the age.

ENGL 250
SPECIAL TOPICS IN ENGLISH OR AMERICAN LITERATURE 3.0
A survey or genre course on a topic not included in the regular departmental offerings. May be used by English majors as a departmental elective.
Prerequisite: ENGL 106 or equivalent.

ENGL 254
ENGLISH DRAMA: BEGINNINGS TO 1642 3.0
English drama from its medieval origins to the closing of the theaters in 1642; from miracles, mysteries and moralities through the development of Tudor and Stuart drama. Shakespeare excluded.

ENGL 256
ENGLISH NOVEL TO 1900 3.0
Form and theme of the English novel through the 18th and 19th centuries, evaluated by literary, social, moral and cultural criteria.

ENGL 260
ART OF POETRY 3.0
An introductory course in reading, interpreting, and evaluating poetry. Attention is paid to style, form, and poetic convention.

ENGL 262
ART OF FICTION 3.0
An introduction to form and techniques in fiction through close reading and discussion of representative texts.

ENGL 263
ART OF DRAMA 3.0
An introduction to dramatic literature and the ways in which man expresses himself and his community through drama as a blend of word and gesture.

ENGL 294
WOMEN POETS 3.0
Selected poets from Sappho through Emily Dickinson to Sylvia Plath examined in relation to contemporary women poets. Meets the Minorities Culture Requirement.
Prerequisite: ENGL 260.

ENGL 324
AMERICAN POETRY TO 1940 3.0
American poetry from Poe to Langston Hughes with an emphasis on what makes the American voice unique.

ENGL 325
AMERICAN POETRY: WW II TO PRESENT 3.0
American poetry beginning with William Carlo Williams and continuing to the present with an emphasis on new attitudes, techniques and contributions to American culture.

ENGL 326
EARLY AMERICAN LITERATURE 3.0
American literature from the Puritans to 1800, tracing the development of colonial and revolutionary thought and the beginning of America's cultural independence.

ENGL 336
AMERICAN LITERARY REALISM 3.0
The works of James, Howells, Twain, Crane, Norris, Dreiser and others are examined in light of the developing literary concepts of realism, naturalism and social Darwinism in the changing cultural period between 1860 and 1900.

ENGL 337
MODERN AMERICAN FICTION 3.0
American fiction from 1918 to 1945 with attention to the works, criticism and lives of such authors as Hemingway, Faulkner and Fitzgerald.

ENGL 338
CONTEMPORARY AMERICAN FICTION 3.0
Developments in American fiction since the 1940's with attention to such authors as Mailer, Roth, Nabokov and Vonnegut.

ENGL 343
MILTON 3.0
An introduction to the mind and art of Milton. Intensive study of one major work and selections representative of the full range of his achievement.

ENGL 344
CHAUCER 3.0
Troilus and Criseyde, The Canterbury Tales and some of the minor poems in Middle English. No previous language training required.

ENGL 345
MIDDLE ENGLISH LITERATURE 3.0
The literature of England from 1100 to 1400, in its historical and social contexts and in relation to continental literature. Where appropriate, works are read in middle English.

ENGL 346
19TH CENTURY ENGLISH ROMANTIC LITERATURE 3.0
The revolutionary expression of such poets and essayists as Wordsworth, Coleridge, Shelley, Byron, Keats, Hazlitt, De Quincey and Lamb.

ENGL 347
VICTORIAN PROSE AND POETRY 3.0
Mid and late 19th century responses to the emergence of modern British society demonstrated in the works of Carlyle, Mill, Ruskin, Huxley, Newman, Arnold, Morris, Tennyson and Browning.

ENGL 348
RENAISSANCE LITERATURE 3.0
Major poets and prose writers of 16th and early 17th century England such as Sydney, Lyly, Nashe, Greene, Donne and Browne, whose individual contributions in poetry and prose reflect the literary and philosophical preoccupations of the period.

ENGL 353
SHAKESPEARE: COMEDIES-HISTORIES 3.0
Representative comedies and histories: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's vision of man as actor.

ENGL 354
SHAKESPEARE: TRAGEDIES-ROMANCES 3.0
Representative tragedies and romances: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's view of man in the tragic mode and in the later romances.

ENGL 370
ENGLISH INDEPENDENT STUDY I 2.0-3.0
A scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in that field of interest.
Prerequisite: Junior or Senior standing with prior permission of the specialist and the English Department.

ENGL 371
ENGLISH INDEPENDENT STUDY II 2.0-3.0
A second scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in that field of interest or a study begun in ENGL 370 that continues for a second term.
Prerequisite: Successful completion of ENGL 370 and prior permission of the specialist and the English Department.

ENGL 444
17TH CENTURY ENGLISH POETRY 3.0
The schools of Donne and Jonson and the works of Marvell and Dryden. Milton excluded.

ENGL 446
IRISH RENAISSANCE PERIOD LITERATURE 3.0
Irish romanticism, naturalism, symbolism and realism in the works of Joyce, Shaw, Yeats and others from the late 1890's to the 1930's.

ENGL 455
RESTORATION AND 18TH CENTURY DRAMA 3.0
Major innovation of dramatic form and conventions in the period from 1660 to 1715 on the English stage in the works of Etherege, Wycherley, Congreve, Vanbrugh and Dryden.

ENGL 456
20TH CENTURY ENGLISH NOVEL 3.0
The literary and cultural context and the stylistic and structural changes in representative British novels of the 20th century.

ENGL 471
TEACHING ENGLISH (SECONDARY) 4.0
Communicating both the discipline and the human dimensions of English as a subject in the classroom, including familiarization with adolescent literature and the uses of computers in the English classroom. A course in the professional sequence not credited to the English major requirements.
Prerequisites: Concurrent or completed preliminary field experience (CURR 410) and permission of the English teacher education coordinator.

ENGL 493
SEMINAR IN AMERICAN LITERATURE 3.0
The works of one major American author in depth or of a group of authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English Majors or permission of the instructor.

ENGL 494
SEMINAR IN ENGLISH LITERATURE 3.0
The works of one major English author in depth or of a group of English authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or permission of the instructor.

ENGM 284
THE ENGLISH LANGUAGE 3.0
The history and development of English from its Indoeuropean and Germanic origins to the present, with emphasis on the morphology of Old and Middle English.

ENGM 384
THE GRAMMARS OF ENGLISH 3.0
A critical overview of traditional, structural, and transformational-generative approaches to the problems of analyzing the grammar of the English language; practical applications for teaching English and for understanding grammatical principles as a means of more effective writing and literary analysis. This course is cross listed with LNGN 384.

ENID 298
LITERATURE AND PSYCHOLOGY 3.0
Major modern depth psychologies—Freudian, Jungian, Adlerian—in their world-wide literary portrayal of human character and action through investigating such issues as the alienated individual, love and marriage, parents and children, and the quest for selfhood.

ENLT 176
WORLD LITERATURE: THE COMING OF AGE THEME 3.0
This course combines Western with non-Western works to approximate an approach to a "global perspective" on literature. It is designed to introduce the student to major works of world literature; to foster an international literary sensibility; to present a variety of cultural perspectives in a context which demonstrates how they are interrelated; to present students with assignments that will direct them toward developing skills of literary analysis and interpretation; and to guide students in deepening their awareness of the connections between national literatures and their cultural contexts. Meets the General Education Requirement - Humanities, World Literature.

ENLT 177
WORLD LITERATURE: VOICES OF TRADITION AND CHALLENGE 3.0
Organized around the premise that writers have two fundamental ways of responding to the challenge of their culture, conformity or dissent, this course will present literary works in pairs that represent opposing ways of responding to the same subject. Meets the General Education Requirement Humanities, World Literature.

ENLT 250
SPECIAL TOPICS IN COMPARATIVE LITERATURE 3.0
A survey or genre course on a topic not included in the regular departmental offerings. Satisfies the departmental major requirement in comparative literature.
Prerequisite: ENGL 106 or equivalent.

ENLT 260
MYTH AND LITERATURE 3.0
Myth and the myth-making process: the origins, meanings and major archetypes and motifs of occidental and oriental myths.

ENLT 366
AFRICAN MYTH AND LITERATURE 3.0
The nature of the Sub-Saharan experience and vision through African myths and literary works within the context of culture, criticism and theory. Meets the Minorities Culture Requirement.

ENLT 372
WOMEN PROSE WRITERS 3.0
Readings in the international fiction and non-fiction of women writers. The focus will be on such themes as the nature of the family, changing relationships between women and men, evolving concepts of the "feminine," the impact of colonialism on gender related issues (i.e., work and women's identity) and interrelationships between religion and women's lives.

ENLT 373
LITERARY MODERNISM 3.0
The intellectual concepts of Futurism, Dada, Surrealism and Expressionism in the early 20th century, which continue to influence literature and art.

ENLT 375
MODERN DRAMA: IBSEN TO O'NEILL 3.0
Major modern plays and the playwrights whose critical insights and historical perspectives led to their unique contributions.

ENLT 376
MODERN EUROPEAN NOVEL 3.0
The creative expression of such novelists as Gide, Hesse, Kafka, Proust and Woolf as shaped by events of the period 1910 to 1930, and how these works influenced the future of the novel.

ENLT 377
SPECULATIVE FICTION: FANTASY 3.0
The impossible and improbable in fairy tales, myth, legend, horror, sword and sorcery, the supernatural and high fantasy as a critical mode. Technological science fiction excluded.

ENLT 378
SCIENCE FICTION 3.0
Fiction of the future that speculates and extrapolates from the physical and social sciences, selected from both the classics and contemporary writings.

ENLT 464
MODERN POETRY TO T.S. ELIOT 3.0
Works of the French symbolists and the Georgian and Imagist poets of Britain, the continent and America whose theories and principles underlie modern poetics.

ENLT 492
SEMINAR IN COMPARATIVE LITERATURE 3.0
A culture, era, theme or literary approach studied through international literary masterpieces. Enrollment limited.
Prerequisite: Junior or Senior standing English majors or instructor's permission

ENWR 200
CREATIVE WRITING: FICTION, POETRY, DRAMA 3.0
Writing as a creative process with explorations in poetry, drama, fiction and autobiography.
Prerequisites: ENGL 105 or instructor's permission.

ENWR 205
WRITING: NONFICTION PROSE 3.0
Advanced writing skills with stress on developing a personal writing style, adapting writing style to various subjects and audiences and experimenting with different modes of exposition.
Prerequisites: ENGL 105, instructor's permission.

ENWR 206
BUSINESS WRITING 3.0
Writing skills essential to the world of work with emphasis on correspondence, analytical reports and proposals.

ENWR 207
TECHNICAL WRITING 3.0
Writing skills essential in technology, science and industry with emphasis on mechanism and process description, analysis of data, recommendation proposals and formal reports.

ENWR 210
NEWSWRITING 3.0
Writing news articles according to contemporary practices. Interviewing techniques are explored as well as a respect for facts, impartiality, and fairness.
Prerequisite: Instructor's permission.

ENWR 214
FEATURE WRITING 3.0
All aspects of writing personality profiles and of writing critical reviews, columns and/or sports features.
Prerequisite: ENWR 210.

ENWR 216
HISTORY OF JOURNALISM IN AMERICA 3.0
Evolution of the American press is examined through research and discussion of significant periods, individuals and issues from 1600 to the present.

ENWR 250
SPECIAL TOPICS IN WRITING 3.0
A course in writing not included in the regular departmental offerings. May be used by English majors as a departmental elective.
Prerequisite: ENGL 105 or equivalent.

ENWR 300
MEET THE PRESS 3.0
Study of issues and problems in modern journalism through lectures by and writings of working journalists.
Prerequisite: ENWR 210

ENWR 301
COOPERATIVE EDUCATION (ENGLISH) 8.0
An outside the classroom English supervised employment experience related to academic study. Not included in major requirements.
Prerequisites: Permission of English faculty coordinator and the Office of Cooperative Education

ENWR 311
WRITING: FICTION 3.0
Fundamentals and techniques of writing prose fiction (stories and/or novels), with evaluations in class and extensive individual conferences.
Prerequisite: ENWR 200 or instructor's permission.

ENWR 312
WRITING: POETRY 3.0
Techniques and fundamentals of writing poetry through writing, reading, and professorial evaluations.
Prerequisite: ENWR 200 or instructor's permission.

ENWR 313
EDITING 3.0
Copy editing, proofreading and basic editorial skills. Articles are analyzed for accuracy, libel, precise diction and tightening.
Prerequisites: ENWR 210, or 214, instructor's permission.

ENWR 314
ADVANCED EDITING 3.0
Techniques learned in editing are reinforced. Layout, headlines and production are explored. Rewriting and fitting articles are worked on extensively.
Prerequisite: ENWR 313

ENWR 315
MAGAZINE JOURNALISM 3.0
Researching, writing and placing feature stories in mass circulation magazines.

ENWR 316
REPORTING OF PUBLIC AFFAIRS 3.0
News articles on the activities of government at the local level, including writing reports on the proceedings of civil and criminal court and city/county executive councils.
Prerequisite: ENWR 210, 214, or 313 or permission of instructor.

ENWR 407
ADVANCED LITERARY ANALYSIS 3.0
Writing of interpretive essays; applying traditional and contemporary critical approaches to selected works. Responding to them in scholarly writing.

ENWR 411
ADVANCED WRITING: FICTION 3.0
Writing of prose with intensive class analyses and individual conferences.
Prerequisite: ENWR 311 or instructor's permission.

ENWR 412
ADVANCED WRITING: POETRY 3.0
Writing of poetry with intensive class analyses and individual conferences.
Prerequisite: ENWR 312 or instructor's permission.

ENWR 416
INTERPRETIVE JOURNALISM 3.0
Studying and writing columns, editorials and news articles. Students will compare different styles of interpretive reporting and develop their own skills in this area.
Prerequisite: ENWR 210 or equivalent course.

ENWR 491
SEMINAR IN WRITING 3.0
Creative writing, expository writing or theories of the teaching of composition for the advanced student. Enrollment limited.
Prerequisites: Junior or senior English majors and/or permission of instructor.

Environmental, Urban and Geographic Studies

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Harbans Singh

The department offers a geography major leading to the Bachelor of Arts degree and a minor in urban studies. There are three specializations which are applied in their nature and lead to careers in fields, such as, environmental management, city and regional planning, community development, economic development, transportation planning, real estate development. The specializations include environmental studies, urban studies, and geography and regional analysis.

In the specializations, the teaching emphasis is on the formulation of concepts and theory, analysis of environmental and census data, data presentation techniques, interrelationships between human and natural elements, locational analysis and environmental and urban problem solving.

Environmental studies attempts to develop a systematic understanding of the environmental factors related to life. Natural factors, such as water, air, land, biota, are studied in the context of socio-cultural, technological and behavioral factors. All aspects of environmental resources, environmental management and pollution are analyzed.

Urban Studies prepared students with technical skills to fully comprehend the process of modern urban growth and development. Urban location, development, management and planning are emphasized.

Geography and Regional Analysis is the study of the synthesis of all natural, physical and cultural elements found in various regions of the earth. Synthesis of regional attributes is stressed.

An important feature of these specializations is the full semester, off campus internship which enables students to work in public and private agencies as planners.

Geography Major—Urban Studies Concentration

Required Courses

			Semester Hours
EUGS	100	Principles of Geography	3
OR			
EUGS	101	Human Geography	3
EUGS	206	Introduction to American Urban Studies	3
EUGS	309	Research Methods	3
OR			
EUGS	310	Quantitative Methods in Geography and Urban Studies	3

Electives (Departmental)

Select 24 semester hours from the appropriate list to be obtained from the department 24

Urban Studies Minor

Required Courses

EUGS	206	Introduction to American Urban Studies	3
EUGS	462	People and Cities: Comparative Urban Studies	3
EUGS	463	Internship	12
EUGS	464	Senior Seminar in Urban Studies (Urban Studies Internship)	3

Courses of Instruction

ENVR 409
ENVIRONMENTAL LAW 3.0
The study of the National Environmental Policy Act, the Environmental Impact Statement; the Clean Air Act; the Clean Water Act; Toxic Substances Control Act; Solid and Hazardous Waste; related environmental laws, i.e., OS&H act; and litigation are analyzed. Aspects of environmental law, within which institutions and corporations must operate, are discussed.

EUGS 100
PRINCIPLES OF GEOGRAPHY 3.0
The course studies the major elements of the natural environment and their interrelation. The principles and processes essential to the understanding of the natural environmental system and their significance are stressed. The elements studied include: atmosphere, weather and climate, continents, landforms, river systems, ocean currents and tides, soils, vegetation, animal and marine life. Meets the General Education Requirement - Natural Physical Science, Non-Laboratory Science Only.

EUGS 101
HUMAN GEOGRAPHY 3.0
This course is a study of human-environment interactions. It assesses the worldwide distribution of population, religion, language, family structure and socio-economic systems. The synthesis of these elements in the development of various societies is studied. Meets the General Education Requirement - Social Science, Survey Course.

EUGS 102
WORLD GEOGRAPHY 3.0
World geography aims to present essential facts and concepts about the natural and human environment of major regions and countries. The course presents a picture of regions as developed through the interactions of natural, cultural, economic and political forces. Geopolitical, social and economic relationships between and among countries are studied. Meets the General Education Requirement - Social Science, Topic Course.

EUGS 109
THE HUMAN ENVIRONMENT 3.0
An interdisciplinary course which examines man's relationship to his natural environment, his reliance on it, his view on it, and his changes in it, and future human and environmental projections. Meets the General Education Requirement - Contemporary Issues.

EUGS 201
CLIMATOLOGY 3.0
Basic climate elements examined in terms of their influence on habitats and various aspects of human activities. The energy flux between atmosphere and biosphere affords a fundamental understanding of limitations in ecosystems development. Knowledge and climatic influences on health, clothing, human comfort, architecture, commerce and industry encourages the student to investigate new ways of living rationally within a climatic environment.

EUGS 202
GEOGRAPHY OF ANGLO-AMERICA 3.0
Provides an understanding of the development of cultural, physical and economic landscape of the United States and Canada. Emphasizes elements of rapid change: urbanization, industrial growth, transportation, trade patterns, distribution of population and modern agriculture.

EUGS 203
OUR FINITE EARTH: POPULATION AND RESOURCES 3.0
Implications of the population explosion and the rising rate of resource consumption. Focuses on the alternative ways various societies can achieve equilibrium between population and economic development within the framework of limited world resources.

EUGS 204
PRINCIPLES OF LAND USE 3.0
Geographical analysis of rural and urban land use patterns in the United States. Fieldwork stresses mapping techniques and socio-economic aspects of urban land use in the New York-New Jersey metropolitan area.

EUGS 205
NOISE POLLUTION: CONTEMPORARY PROBLEMS AND ISSUES 3.0
Noise, noise pollution, the psycho-physical effects of noise, noise control, and hearing conservation is studied.

EUGS 206
INTRODUCTION TO AMERICAN URBAN STUDIES 3.0
An interdisciplinary introduction to the development of American cities, with an emphasis on current patterns of urbanism and urbanization. The growth and evolution of urban structures, emerging urban and suburban cultural styles, and responses to critical urban issues will be explored. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement.

EUGS 209
URBAN DESIGN AND ARCHITECTURE
AMERICAN CITYSCAPE 3.0
The evolution of American urban form and architecture from the colonial town to the contemporary metropolitan region; city plans and the emergence of professional planning; the architect and the urban environment cultural values and changing urban forms and new town design.

EUGS 234
TRANSPORTATION 3.0
Transportation is the study of spatial interaction of economic factors and societal functioning. Transportation flows are analyzed in the context of technological change, degree of accessibility, different transport cost surfaces, and transportation as it relates to land use planning.

EUGS 252
HYDROLOGY 3.0
Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. Also listed as GEOS 252.

EUGS 300
WORLD RESOURCES AND INDUSTRIES 3.0
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations.

EUGS 303
FIELD GEOGRAPHY 3.0
Geographic analysis of local region. Uses of reconnaissance and survey, interviews, maps and ground and aerial photographs in information gathering. Requires individual area study.

EUGS 304
GEOGRAPHY OF EUROPE 3.0
The modern European landscape created by the activities, over many centuries, by a variety of peoples of differing cultural backgrounds, economic systems and ideologies.

EUGS 305
GEOGRAPHY OF EAST AND SOUTHEAST ASIA 3.0
Regional analysis of East Asia (China, Japan) and Southeast Asia (Malaya, Indonesia) the physical and cultural landscape and the problems of economic development.

EUGS 306
GEOGRAPHY OF SOUTH ASIA 3.0
Political, cultural and economic study of India. Pakistan and Bangladesh; interrelationship between cultural and physical aspects of the regional landscape.

EUGS 308
LAND AND LIFE IN LATIN AMERICA 3.0
The course emphasizes the origin and development of Latin America's cultural landscape. It examines critically the natural endowment, social and political institutions and economic potentials of Latin American countries. Relationships among the Latin American states and with the United States are presented. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement.

EUGS 309
RESEARCH METHODS 3.0
The course introduces a widely used statistical package to analyze data. The application and interpretation of results of frequently used statistical techniques remains the primary focus. Survey research techniques are stressed. All the steps in the completion of a research project are emphasized.

EUGS 310
QUANTITATIVE METHODS IN GEOGRAPHY AND URBAN STUDIES 3.0
Treatment of measurements and design in geography; definition of problems, hypotheses formulation and tests of hypotheses by alternative methods of measurement. Geographic applications of computer methods, multi-variate analysis, systems analysis, data bank maintenance and evaluation.

EUGS 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800. Also listed as HIST 312.

EUGS 313
URBAN GEOGRAPHY 3.0
The course focuses on the structure and growth of metropolitan areas of the United States. The location of land uses, social and economic activity, employment and housing are studied. Current urban predicaments and public policy initiatives are evaluated. World cities and urbanization are analyzed in comparative perspective. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

EUGS 317
MANAGING THE URBAN ENVIRONMENT 3.0
An advanced interdisciplinary investigation of the modern city and its suburbs, emphasizing the impact of selected social, political and economic issues.

EUGS 331
URBANIZATION AND ENVIRONMENT 3.0
Examines interaction between man and the physical urban environment. Studies dynamic and physical processes as related to air, water and noise pollution, and hydrologic and geologic hazards.

EUGS 352
FLUVIAL GEOGRAPHY 3.0
Detailed study of streams and rivers emphasizing processes causing variations of size and shape; the morphology of streams and stream channels; processes, quantitative techniques. Also listed as GEOS 352.

EUGS 360
ENVIRONMENTAL GERONTOLOGY 3.0
This course examines the social, political, economic and spatial impacts of the older adult on the environment. Topics discussed are: demographic characteristics and environmental design of senior leisure and housing environments; migration patterns; mobility, and location of older adults; and the planning, site location, design, and financing of independent and assisted adult living environments.

EUGS 403
MAN'S IMPACT ON THE COASTAL ZONE 4.0
A study of man's economic, political, legal and social impacts on the physical and biological aspects of the coastal zone, primarily a field course with supporting lectures and discussion.
Prerequisites: Advanced standing in one of the social sciences or permission of instructor.

EUGS 404
GEO-ECOLOGY 3.0
Spatial relations of the living environment. A systems approach to functional processes, characteristics and relationships of the ecological elements, i.e. soil, water, air, vegetation, etc. Both natural succession and man-induced changes including pollution, within the ecosystem.

EUGS 405
COMPUTER MAPPING
The course introduces a widely used computer mapping software to make thematic customized maps. Presentation of data in the form of a graph and a chart is also stressed. General cartographic principles are emphasized.

EUGS 408
GEOPOLITICS 3.0
Main theories of the field and their application to selected political entities, current problem zones and the spatial interaction of nations.

EUGS 409
URBANIZATION IN WORLD PERSPECTIVE 3.0
Analysis of characteristics and patterns of urbanism and urbanization in world perspective. Studies multi-faceted problems created by rapid urbanization. Examines role of cities in regional development and modernization of rural sector in Third World.

EUGS 412
GEOGRAPHY OF SUB-SAHARA AFRICA 3.0
Topical and regional study of African soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

EUGS 413
GEOGRAPHY OF THE MIDDLE EAST 3.0
Topical study of area extending from Morocco to Iran: arid land agriculture, nomadism, land tenure systems settlement patterns, problems of industrial development, and socio-economic and military implications of region's oil wealth. Includes Arab culture and Islamic influences on urban and rural landscapes. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

EUGS 419
GEOGRAPHY OF THE SOVIET UNION 3.0
Topical and regional analysis. Emphasizes demographic-ethnic composition of soviet people, physical resource base, interregional relationships, and spatial effects of state planning programs.

EUGS 421
POPULATION PROBLEMS OF THE WORLD 3.0
Identification, description and analysis of the present-day distributional patterns of the world's people; demographic trends, man-land ratios. Mobility, migration and socio-economics and geographic forces affecting world population. Techniques for measurement and analysis.

EUGS 424
GEOGRAPHY OF NEW JERSEY 3.0
Demographic and economic organization of the state. Spatial contrasts in population density: suburban-central city interactions; the influence of New York and Philadelphia on landscape organization. Philosophical concepts of regionalism and investigation of micro-regionalism in New Jersey.

EUGS 425
READINGS IN GEOGRAPHY 3.0
Open only to geography honor students. Students will be expected to read a number of the more definitive words in modern geography. Examination will be both oral and written.

EUGS 426
INDEPENDENT STUDY IN GEOGRAPHY 1.0-4.0
Preparation of a research paper or project to be presented to members of the staff.
Prerequisite: Junior and senior majors only.

EUGS 427
PRO-SEMINAR IN GEOGRAPHY 3.0
Problem-oriented seminar. Specific topics in urban environmental studies or geography. Content changes according to the needs of the instructor.

EUGS 428
URBAN STUDIES: LONDON AND THE BRITISH NEW TOWNS MOVEMENT 3.0
An "in-the-field" study of London and the New Towns Movement in the greater London metropolitan region. Students will meet with officials and planners in such agencies as department at environment, new towns association, and Borough Government and study: planning and design of new towns and greenbelts; contrasting social, political, economic, cultural and life styles of Central City London and surrounding new towns; and urban redevelopment in Central London.

EUGS 452
GEOHYDROLOGY 3.0
Ground water study: migration, chemistry and relation to the environment. Darcy's Law, soil porosity, soil permeability and well systems. Water pollutants and salt water incursions; spatial distributions and processes.
Also listed as GEOS 452.

EUGS 456
HYDROCLIMATOLOGY 3.0
Climatology emphasizing moisture as one of the fundamental factors in climatic analysis; processes and problems of classification and variability. Examines energy and water balance. Also listed as GEOS 456.

EUGS 460
URBAN PLANNING 3.0
The course focuses on the principles, processes, and practices of urban planning. The formulation of policies and the management roles of the planning agencies are emphasized.

EUGS 462
PEOPLE AND CITIES: COMPARATIVE URBAN STUDIES 3.0
Introduction and cross-cultural investigation of the processes of urbanism and urbanization: formation, structure and functioning of cities throughout the world. Also listed as ANTH 462.

EUGS 463
INTERNSHIP 3.0-12.0
A full semester internship in an urban or environmental agency. Students will be expected to carry out agency assignments, observe and participate in decision making processes and engage in middle management activities.
Prerequisite: At least 24 semester hours in the major.

EUGS 464
SENIOR SEMINAR IN URBAN STUDY (URBAN STUDIES INTERNSHIP) 3.0
A seminar to be taken in conjunction with the urban studies semester internship, and designed as a synthesis of the various approaches in urban studies which the student has acquired in previous urban-related courses. Each semester the seminar focuses upon a specific in-the-field research project, and an analysis and evaluation of the student's internship experience.
Prerequisites: EUGS 206, 462.

EUGS 465
HONORS RESEARCH 3.0
Provides original research experience to superior undergraduates.
Prerequisites: Permission of chairperson, EUGS 309.

EUGS 470
GEOGRAPHIC INFORMATION SYSTEMS (G.I.S.) 3.0
This course deals with fundamental principles and applications of G.I.S. Various ways in which G.I.S. can be used in planning and management analysis and research will be discussed. Students will learn the issues which need to be considered when planning and implementing G.I.S. One or two widely used software packages will be employed as a tool to study G.I.S. applications.



Finance and Quantitative Methods

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Harvey Blumberg

This department offers two concentrations within the business administration major. The concentration in finance provides the student with a professional background in both corporate finance and investments. The courses in this concentration are planned on a sequential basis, and the student is advised to plan ahead and complete early the quantitative and economics courses.

The concentration in quantitative methods provides training in quantitative analytical methods for solving operational and research problems in industry. These methods, together with computer applications, are handled in depth to permit a student to become comfortable using statistics.

A Bachelor of Science degree in business administration with concentrations in either finance or quantitative methods is offered through this department.

Business Administration Major

Required Courses

			Semester Hours
ACCT	201	Fundamentals of Accounting I	3
ACCT	202	Fundamentals of Accounting II	3
BSLW	261	Legal Environment of Business I	3
FINQ	270	Statistics for Business	4
MGMT	311	Management Process and Organizational Behavior	4
FINC	321	Fundamentals of Finance	3
MKTG	340	Introduction to Marketing	3
FINQ	372	Management Science	4
MGMT	439	Business Policy	3
FINQ	463	Administrative Research Methodology and Analysis	3

Collateral Courses

MATH	113	Mathematics for Business I—Linear Algebra	3
MATH	114	Mathematics for Business II—Calculus	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3
Two courses from two of the following departments: Anthropology, Psychology, Sociology			6

Concentration Programs Within the Major

Finance

Required Courses

			Semester Hours
FINC	326	Investment Principles and Portfolio Theory	3
FINC	322	Capital Budgeting Management	3
FINC	327	International Financial Management	3
Select One			
ECON	301	Money and Banking	3
FINC	431	Advanced International Financial Management	3
FINC	423	Advanced Corporate Finance	3
FINC	425	Working Capital Management	3
FINC	430	Security Analysis and Advanced Portfolio Theory	3
FINQ	362	Business Economics	3

Business Administration Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department.....12

Quantitative Methods

Required Courses

Select Four

FINQ 315 Production and Industrial Analysis 3
FINQ 362 Business Economics 3
FINQ 371 Management Information Systems 3
FINQ 374 Computer Management 3
FINQ 375 Operations Analysis.....3
FINQ 386 Logistics Systems 3
FINQ 474 Business Forecasting 3
FINQ 475 Quantitative Decision Making for Business 3

Business Administration Electives

Select 12 semester hours from the appropriate list to be obtained from the department.....12

Courses of Instruction

FINC 321
FUNDAMENTALS OF FINANCE 3.0
Financial statements and financial forecasting. Introduction to risk, return, and value. Introduction to working capital management, capital budgeting, optimum capital structure, and dividend policy.
Prerequisites: ACCT 202, ECON 101, 102.
Corequisite: FINQ 270.

FINC 322
CAPITAL BUDGETING MANAGEMENT 3.0
Analysis of various investment criteria, especially net present value and internal rate of return. Risk in capital budgeting, capital budgets and performance evaluation, stressing the distinction between accounting and financial criteria. Application of concepts and techniques to such issues as leasing, mergers and acquisitions.
Prerequisites: FINQ 270, FINC 321.

FINC 326
INVESTMENT PRINCIPLES AND PORTFOLIO THEORY 3.0
Financial assets and markets; investors attitudes; sources of investment information, market efficiency, risk and return characteristics of securities. Covariance principle. Application of the capital asset pricing model and general investment valuation methods.
Prerequisites: FINQ 270, FINC 321.

FINC 327
INTERNATIONAL FINANCIAL MANAGEMENT 3.0
Introduction to multinational business finance. Foreign exchange markets and exchange rate forecasting. Balance of payment accounts, measures of surplus or deficit and their relevance to financial planning. International financial markets and international banking. Import and export financing. Positioning of funds.
Prerequisites: FINC 321.

FINC 423
ADVANCED CORPORATE FINANCE 3.0
Interaction of investment and financing decisions. Optimal capital structure and dividend policy: The Miller-Modigliani propositions. Calls and puts. Option valuation models. Valuation of risky debt and term structure of interest rates. Warrants and convertibles.
Prerequisites: FINC 322 or 326.

FINC 425
WORKING CAPITAL MANAGEMENT 3.0
Detailed treatment of topics such as components of working capitals; cash budgeting; short-term financial planning. Credit management; cash and inventory management; short-term lending and borrowing.
Prerequisite: FINC 321.

FINC 430
SECURITY ANALYSIS AND
ADVANCED PORTFOLIO THEORY 3.0
Critical examination of methods of stock and bond valuation. Fundamental and technical analysis. Application of portfolio theory and investment strategies. Pension plans.
Prerequisites: FINC 321, 326.

FINC 431
ADVANCED INTERNATIONAL FINANCIAL MANAGEMENT 3.0
Measurement and management of foreign exchange exposure. Exchange and country risk. The Foreign Investment Decision, multinational capital budgeting, cost of capital and financial structure.
Prerequisites: ACCT 202, FINC 321, 327.

FINC 491
CO-OP EDUCATION IN FINANCE 3.0-8.0
This course is aimed at synthesizing theory and practice. Students will be provided an opportunity to have an exposure to one or two off-campus on-job-trainings in various aspects of quantitative methods of one, or more businesses. Full time students may alternate between college and business where as part-time students may take course in parallel with college.
Prerequisites: Junior/Senior standing; approval of Co-op Coordinator; FINQ 270; and at least one course in Finance.

FINQ 270
STATISTICS FOR BUSINESS 4.0
The comprehension and the application of modern statistical methods. Topics covered include: Probability Theory, Descriptive Statistics, Interval Estimation, Sampling Theory, Parametic and Non-parametic Tests of Significance, Analysis of Variance, Correlation and Regression Analysis and Time Series Analysis.
Prerequisites: MATH 113, 114

FINQ 274
BUSINESS COMPUTER PROGRAMMING 3.0
Problem-oriented programming languages are studied. Business applications will be programmed in FORTRAN and COBOL. Such programs will be debugged via the computer.

FINQ 315
PRODUCTION AND INDUSTRIAL ANALYSIS 3.0
This course is designed to expose students to production aspects of industries. It will develop theories and applications in the area of plant location, capacity planning, facilities design and layout, designing assembly line production systems, facilities maintenance and materials handling, purchasing, inventory control systems, forecasting demand for products, master scheduling and MRP, scheduling and control systems, quality control procedures and statistical quality control.
Prerequisites: FINQ 270 majors only, MGMT 310, instructor's permission.

FINQ 350
QUALITY IMPROVEMENT 3.0
A comprehensive approach to quality in organizations is essential to maintaining competitive position. This course explores current thinking as well as the tools and techniques necessary to implement quality programs.
Prerequisites: FINQ 270.

FINQ 362
BUSINESS ECONOMICS 3.0
Managerial decision-making, the economic meaning and interpretation of demand and supply, production, competition, cost, price and capital investment. Some mathematical methods, case problems, model-building devices to develop forecasting and decision-making skills.
Prerequisites: ECON 101 or 102, MGMT 310.

FINQ 372
MANAGEMENT SCIENCE 4.0
Applied mathematical techniques used to solve a wide variety of problems with special attention to issues, management and production control. Topics include linear programming, transportation and assignment algorithms, pert, inventory models, decision theory, markov models, queuing theory and simulation.
Prerequisites: MGMT 310; FINQ 270, 272.

FINQ 374
COMPUTER MANAGEMENT 3.0
Optimum selection of computer hardware, software and operating systems among various alternatives from a cost effectiveness point of view.
Prerequisite: FINQ 371.

FINQ 375
OPERATIONS ANALYSIS 3.0
Mathematical and statistical methods in the analysis of specific business systems and industrial production activities, inventory control, production planning and scheduling, and capital management. Computers are used to solve problems involving complex systems
Prerequisite: FINQ 372.

FINQ 386
LOGISTICS SYSTEMS 3.0
The logistics sub-system in the economy and the firm; definitive methods of attacking logistics problems. Relationships among logistics components (transportation, materials handling, warehousing, packaging, inventory holding and location theory), and the inter-face of logistics activities and other functional areas of business.
Prerequisites: MGMT 310, MKTG 340.

FINQ 463
ADMINISTRATIVE RESEARCH METHODOLOGY AND ANALYSIS 3.0
Scientific investigations into business problems, evaluation of data sources, research methods, statistical techniques, analysis and interpretation of data. Individual and team investigation and reporting on current problems.
Prerequisite: FINQ 270, senior standing.

FINQ 474
BUSINESS FORECASTING 3.0
Mathematical and economics models for short- and long-range business forecasting. Models are evaluated for accuracy and relevance. The computer is used as a tool in developing an automated system.
Prerequisite: FINQ 270.

FINQ 475
QUANTITATIVE DECISION MAKING FOR BUSINESS 3.0
Decision-making under conditions of certainty, risk, uncertainty, conflict and competition. The theoretical basis for management decisions and elements of the process. The theory of games and the use of simulation as applied to typical managerial problems.
Prerequisites: MGMT 310, MKTG 340, FINQ 270.

FINQ 491
CO-OP EDUCATION IN QUANTITATIVE METHODS 3.0
This course is aimed at synthesizing theory and practice. Students will be provided an opportunity to have an experience to one or two off campus on-job trainings in various aspects of quantitatives methods of one or more businesses. Full-time students may alternate between college and business where as part-time students may take co-op in parallel with college.

Fine Arts

SCHOOL OF FINE AND PERFORMING ARTS
Chairperson: Anne Betty Weinshenker

The Fine Arts Department offers a Bachelor of Arts and a Bachelor of Fine Arts degree.

The B.F.A. degree program is a pre-professional program with specialization in ceramics, drawing, fabrics, filmmaking, graphic design, illustration, jewelry, multi-media, painting, papermaking, photography, printmaking and sculpture. Courses in each specialization give intensive pre-professional experience preparing students for involvement as artists, graphic designers and illustrators.

The B.A. is a liberal arts degree with four programs: Studio, Art History, Art Education, and Studies in the Visual Arts. The program in Studio is for students interested in liberal arts with a rich studio experience specializing in the same areas as those in the B.F.A. program. The Art History program is for students interested in the historical development of art. The program in Fine Arts Education leads to certification to teach in public schools and is intended for students who want to teach art in schools, museums and community centers. Studies in the Visual Arts is for students seeking an understanding and appreciation of the visual arts.

All students, except those interested in the Art History Program, must successfully complete a portfolio review for admission, in addition to meeting the college requirements.

Studio (BA)

A liberal arts program for students who want a studio concentration.

Required Courses

			Semester Hours
ARGN	101	Design/Foundations of Visual Organizations I	3
ARGN	102	Design/Foundations of Visual Organizations II	3
ARHS	105	Art and Civilization I	3
ARHS	106	Art and Civilization II	3
ARHS	451	Contemporary Art	3
ARGN	107	Drawing I	3
ARGN	201	Color Studies I	3
ARGN	220	Life Drawing I (May substitute ARPR 350 Illustration I: Survey of Concepts and Methods for graphic design emphasis.)	3
Art History Electives			6

Select 6 semester hours from 2 of the following categories:
1. Ancient Art through Medieval
2. Renaissance through Baroque (15th through 18th centuries)
3. 19th or 20th Century
4. Non-Western

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department. Include 3 sequential courses in same area of specialization (e.g. Sculpture I, II, III). Exhibition Workshop I (AREX 489) is strongly recommended.

Studio (BFA)

A preprofessional program for students who seek preparation as artists.

Required Courses

			Semester Hours
ARGN	101	Design/Foundations of Visual Organization I	3
ARGN	102	Design/Foundations of Visual Organization II	3
ARGN	107	Drawing I	3
ARGN	201	Color Studies I	3
ARGN	220	Life Drawing I (May substitute ARPR 350 Illustration I: Survey of Concepts and Methods for graphic design emphasis.)	3
ARHS	105	Art and Civilization I	3
ARHS	106	Art and Civilization II	3
ARHS	451	Contemporary Art	3
Studio Electives			18
Major Studio			28
Art History Electives			6
ARPT	215	Art Forum	3
ARHS	462	Senior Seminar	3
AREX	489	Exhibition Workshop I	1

Art History (BA)

A liberal arts program for students whose interest is in the study of the history and development of the art of mankind in all its variations from antiquity to the twentieth century.

Required Courses

			Semester Hours
ARGN	101	Design/Foundations of Visual Organization I	3
ARGN	102	Design/Foundations of Visual Organization II	3
ARHS	105	Art and Civilization I	3
ARHS	106	Art and Civilization II	3
ARHS	200	Resources and Methods of Research in the Arts	3
One Ancient Art History course			3
One Medieval Art History course			3
One Renaissance Art History course			3
One Baroque Art History course			3
19th century Art History course			3
20th century Art History course			3
Art History elective			6
Studio, Museum Practice, Externship			6

Required Collateral Courses

FREN	101 and 112	Beginning French I, II	6
or			
ITAL	101 and 102	Italian I, II	6
or			
LATN	101 and 112	Beginning Latin I, II	6
PHIL	206	Philosophies of Art	3
RELG	200	Old Testament: Genesis to Joshua	3
RELG	204	New Testament: Jesus and the Gospels	3
Theatre History Elective			3

Free Electives 7
Exhibition Workshop I (AREX 489) is strongly recommended.

Note: The GER in General Humanities is to be filled by GNHU 285 Classical Mythology. The GER in History is to be filled by one of the following:

HIST	103	Foundations of Western Civilization	3
HIST	105	Emergence of European Civilization, 1500-1914	3
HIST	106	Contemporary Europe, 1914 to the Present	3

Visual Arts (BA)

A liberal arts program for students seeking an understanding and an appreciation of the visual arts.

Required Courses

			Semester Hours
ARGN	101	Design/Foundations of Visual Organization I	3
ARGN	102	Design/Foundations of Visual Organization II	3
ARHS	105	Art and Civilization I	3
ARHS	106	Art and Civilization II	3
ARHS	250	Modern Philosophies of Art	3
Three introductory studio courses			9

Five courses selected from the list below in consultation with faculty advisor.

Any ARHS course

ARFL	299	History of Cinema As Art	3
ARMT	401	History of Textiles	3
ARPH	484	History of Photography	3
ARPR	464	Art and History of the Print	3
AREN	341	History of City Form	3
SOCI	307	The City and the Arts	3
ARHS	326	The Critical Approach	3
ARHS	200	Resources and Methods of Research in the Arts	3
AREX	330	Museum Practice	3
AREN	478	Art in Public Places	3

Fine Arts Education (BA)

A degree program for students who wish to teach art in various settings including museums, community centers, and schools. Certification is for grades kindergarten through 12.

Required Courses

			Semester Hours
ARGN	101	Design/Foundations of Visual Organization I	3
ARGN	102	Design/Foundations of Visual Organization II	3
ARHS	105	Art and Civilization I	3
ARHS	106	Art and Civilization II	3
ARGN	201	Color Studies I	3
ARGN	107	Drawing I or ARGN 220 Life Drawing I	3
ARED	400	Foundations of Methods and Curriculum in Art Education II: K-12	3
ARPT	200	Painting I	3
ARMT	202	Ceramics: Pottery and Sculpture I	3
ARMT	204	Fibers and Fabrics I	3
ARGN	209	Theatre Arts I	3
ARPT	211	Sculpture I	3
ARGN	211	Graphic Design I: Foundation	3
ARPR	120	Introduction to Printmaking	3
ARMT	218	Metalwork and Jewelry I	3
ARPH	213	Photography I: A Contemporary Art Form	3

Electives (Departmental) 2

Exhibition Workshop I (AREX 489) is strongly recommended.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Courses of Instruction

ARED 300
FOUNDATIONS OF METHODS AND CURRICULUM IN ART EDUCATION I: K-12 3.0
Philosophical and theoretical basis of fine arts education; the sources of creativity, concepts of visual literacy and the role of art in individual human experience and in society; organization and presentation of experience, curriculum construction and application of theory to the school, museum, community center, adult education and other teaching situations. For Fine Arts Education majors; this course must be taken simultaneously with Teacher, School and Society in the spring of the junior year.
Prerequisites: PSYC 101, 200, majors only.

ARED 400
FOUNDATION OF METHODS AND CURRICULUM IN ART EDUCATION II: K-12 3.0
Organization and presentation of art experiences for a wide variety of teaching situations, including K-12, adult classes, museum settings and community centers. Exploration of media, understanding their expressive range, proficiency in their use, and adaptation to various teaching goals. Integration of theory and media.
Prerequisite: ARED 300; majors only.

ARED 460
COMPUTER GRAPHICS AND NEW TECHNOLOGIES IN ART AND EDUCATION 3.0
Computer generated art and related technologies with direct personal experiences on the microcomputer. Overview of the uses of computer graphics in business, education, creative, artistic and scientific applications. Special emphasis on creative artistic uses for the teaching of art.

AREX 330
MUSEUM PRACTICE 3.0
A study of museum techniques, much of it at museums in the metropolitan area with the participation of their staffs. Field trips and, if possible, brief apprenticeships.

AREX 489
EXHIBITION WORKSHOP I 1.0
Exhibition techniques and procedures. Mounting of shows on campus.

AREX 490
EXHIBITION WORKSHOP II 3.0
Continuation of AREX 489.
Prerequisite: AREX 489.

ARFL 218
FILM MAKING I 3.0
Basic elements of super 8 film production: script, camera, lighting, sound, editing, animation. Meets the General Education Requirement - Electives, Creative Expression.

ARFL 219
FILM MAKING II 3.0
Basic elements of 16 mm film production. Script, camera, lighting, sound, editing, animation. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisites: ARFL 218, instructor's permission.

ARFL 221
VIDEO-TELEVISION AS AN ART FORM I 3.0
Students are introduced to criteria for aesthetic decision making by producing video projects that record the real world, persuade or move viewers to action, express the student's personal visions and illustrate aesthetic values. Students are given skills of video production and its relationship to visual aesthetics. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: Permission of instructor.

ARFL 222
VIDEO-TELEVISION AS AN ART FORM II 3.0
Continuation of ARFL 221.
Prerequisites: ARFL 221 and instructor's permission.

ARFL 299
HISTORY OF CINEMA AS ART 3.0
The development of the motion picture as an art form from its earliest stages to the present; the technical, social, economic, cultural and esthetic factors. May be repeated once for credit. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARFL 336
VIDEO-TELEVISION AS AN ART FORM III 3.0
Continuation of ARFL 222.
Prerequisites: ARFL 222 and instructor's permission.

ARFL 453
FILMMAKING III 3.0
Continuation of ARFL 219.
Prerequisite: ARFL 219.

ARFL 474
VIDEO-TELEVISION AS AN ART FORM IV 3.0
Continuation of ARFL 336.
Prerequisites: ARFL 336 and instructor's permission.

ARFL 491
INDEPENDENT STUDY IN FILM I 3.0
Topics selected with the approval of the instructor.

ARFL 492
INDEPENDENT STUDY IN FILM II 3.0
Topics selected with the approval of the instructor.
Prerequisite: ARFL 491.

ARFL 493
INDEPENDENT STUDY IN FILM III 3.0
Topics selected with the approval of the instructor.
Prerequisite: ARFL 492.

ARFL 494
INDEPENDENT STUDY IN FILM IV 3.0
Topics selected with the approval of the instructor.
Prerequisite: ARFL 493

ARFL 499 FILM MAKING IV 3.0
Continuation of ARFL 453.
Prerequisite: ARFL 453.

ARGN 100
INTRODUCTION TO THE VISUAL ARTS 3.0
The ways in which man has expressed himself in the visual arts including painting, ceramics, sculpture, weaving, printmaking, architecture, the theater, motion pictures and photography, explored through studio work, demonstrations and trips to art sources. The nature and experience of art, their significance to the individual and their role in a culture. For non-majors. Meets the General Education Requirement-Fine and Performing Arts: Art Appreciation.

ARGN 101
DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION I 3.0
Required for art majors. This core course deals with the foundations of visual organization. It is structured to develop the student's vocabulary, both visual and verbal through studio experience, lectures and discussions. The student's perception is heightened by emphasis on light, line, color, plane, texture, form, shape, time as basic elements in all art forms. Two and three dimensional concepts are introduced through a variety of materials and processes. Reading assignments, museum and gallery visits are required.

ARGN 102
DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION II 3.0
Continuation of ARGN 101. Required of all art majors.
Prerequisite: ARGN 101

ARGN 103
VISUAL ARTS STUDIO I 3.0
The art forms (painting, sculpture, drawing, crafts) experienced through exploration of nature, found and manufactured materials. Creative experiences in studio work relating art to the student's primary area of knowledge; the part art experience can play in his life. For students with limited experience. Meets the General Education Requirement - Electives, Creative Expression.

ARGN 104
VISUAL ARTS STUDIO II 3.0
Continuation of ARGN 103. For students with limited experience. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisites: ARGN 103, instructor's permission.

ARGN 107
DRAWING I 3.0
Basic elements of line, point, shape, figure-ground, and space relationships. Meets the General Education Requirement - Electives, Creative Expression.

ARGN 201
COLOR STUDIES I 3.0
Color and its interaction through problems in color relatedness, systems and theories. Color usage, the development of skills in paint application, use of colored papers and techniques of presentation. Lectures, discussions reading assignments, museum and gallery visits.
Prerequisites: ARGN 101, 102, or instructor's permission.

ARGN 211
INTRODUCTION TO PAPERMAKING 3.0
Basic methods of making handmade paper as an art form; history and basic principles of handmade paper; contemporary directions and methods of forming.
Prerequisite: ARGN 101, or instructor's permission.

ARGN 212
GRAPHIC DESIGN I: FOUNDATION 3.0
Basic introduction to graphic design methods and techniques; understanding the conceptual base of graphic design as a problem-solving discipline; an overview of the history of graphic design including an introduction to current trends in the field and the major designers responsible for creating them.
Prerequisites: ARGN 101, 107.

ARGN 215
DRAWING II 3.0
Continuation of ARGN 107. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARGN 107.

ARGN 220
LIFE DRAWING I 3.0
The structure and proportions of the human form. Expressive drawing is emphasized. Meets the General Education Requirement - Electives, Creative Expression.

ARGN 275
DRAWING III 3.0
Continuation of ARGN 215.
Prerequisite: ARGN 215.

ARGN 280
LIFE DRAWING II 3.0
Continuation of ARGN 220. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARGN 220.

ARGN 301
COLOR STUDIES II 3.0
Continuation of ARGN 201.
Prerequisite: ARGN 201.

ARGN 311
INTERMEDIATE PAPERMAKING I 3.0
Continuation of ARGN 211. Two-dimensional and three-dimensional forms. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARGN 211.

ARGN 313
GRAPHIC DESIGN II:FOUNDATION 3.0
Basic introduction to typography, type comping and hand-lettering. Exploration of the relationship of word and image and its importance in the graphic design process and the elements of organization of typographic forms for power and visual impact.
Prerequisite: ARGN 212 or instructor's permission.

ARGN 314
INTERMEDIATE PAPERMAKING II 3.0
Continuation of ARGN 311. Two-dimensional and three-dimensional forms.
Prerequisite: ARGN 311.

ARGN 315
DRAWING IV 3.0
Continuation of ARGN 275.
Prerequisite: ARGN 275.

ARGN 339
VISUAL ARTS STUDIO III 3.0
Continuation of ARGN 104. For students with limited experience.
Prerequisite: ARGN 104, instructor's permission.

ARGN 340
DRAWING V 3.0
Continuation of ARGN 315.
Prerequisite: ARGN 315.

ARGN 350
INDEPENDENT STUDY 1.0-6.0
Topics for investigation selected with approval of the instructor.
May be repeated for credit.

ARGN 375
GRAPHIC DESIGN III: LAYOUT AND BEGINNING MECHANICALS 3.0
Basic introduction to the principles of layout including grid systems and their use. Introduction to methods used to turn a design idea into a finished printed piece including basic understanding of printing and beginning paste-up and mechanicals.
Prerequisites: ARGN 212, 313 or instructor's permission.

ARGN 400
INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATION I 3.0
Topics for investigation selected with the approval of the instructor.

ARGN 401
INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATION II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 400.

ARGN 402
INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATION III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 401.

ARGN 403
INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATIONS IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 402.

ARGN 404
INDEPENDENT STUDY IN DRAWING I 3.0
Topics for investigation selected with the approval of the instructor.

ARGN 405
INDEPENDENT STUDY IN DRAWING II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 404.

ARGN 406
INDEPENDENT STUDY DRAWING III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 405.

ARGN 407
INDEPENDENT STUDY IN DRAWING IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 406.

ARGN 411
ADVANCED PAPERMAKING I 3.0
Continuation of ARGN 314. Development of personal expression and direction in the body of work produced.
Prerequisite: ARGN 314.

ARGN 415
GRAPHIC DESIGN IV - ADVANCED LAYOUT AND PRODUCTION 3.0
Continuation of the exploration of the process of layout design including understanding the synthesis of photographic, illustrative, and typographic elements to successfully realize good design solutions. Advanced production including further exploration of printing methods, materials and advanced mechanicals and paste-up.
Prerequisite: ARGN 375, or permission of instructor.

ARGN 425
MAJOR STUDIO PROJECT I (B.F.A.) 3.0
With faculty advisement, each senior student will design and develop a studio project in a chosen area of specialization. The body of the work will be completed in Major Studio Project II.
Prerequisite: Permission of B.F.A. co-ordinator.

ARGN 440
ADVANCED PAPERMAKING II 3.0
Continuation of ARGN 411. Development of personal expression and direction in the body of work produced.
Prerequisite: ARGN 411

ARGN 441
LIFE DRAWING III 3.0
Continuation of ARGN 280.
Prerequisite: ARGN 280.

ARGN 442
LIFE DRAWING IV 3.0
Continuation of ARGN 441.
Prerequisite: ARGN 441.

ARGN 443
INDEPENDENT STUDY IN LIFE DRAWING I 3.0
Topics for investigation selected with the approval of the instructor.

ARGN 444
INDEPENDENT STUDY IN LIFE DRAWING II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 443.

ARGN 447
WORKSHOP IN PERFORMANCE ART 3.0
Study with master performance artists, developing skills in interdisciplinary creative forms of music, dance, visual arts and theatre with multimedia. Incorporation of the history of performance art and learning to use the latest technologies of video, film, synthesizers, and audio-visual projections to create an artistic statement. The artists-in-residence will direct and critique the students' performance work.

ARGN 450
MAJOR STUDIO PROJECT II (B.F.A.) 10.0
With faculty advisement, each senior student will complete and present a body of work in an area of extended specialization, the same area of specialization already established and explored in Major Studio I.
Prerequisite: ARGN 425; permission of B.F.A. coordinator.

ARGN 455
ADVERTISING DESIGN 3.0
An introduction to advertising methodologies and philosophies including an exploration of current trends and an overview of the history of advertising. The course will deal with how to take a product, come up with an unique concept and execute it creatively in a rough print ad or TV commercial.
Prerequisite: ARGN 415.

ARGN 460
GRAPHIC DESIGN V: ADVANCED PROBLEMS IN GRAPHIC DESIGN 3.0
Exploration of career objectives and how to obtain them. Preparation of finished portfolio pieces for the purpose of obtaining a position in the design field. Execution of professional stationery and resume.
Prerequisite: ARGN 415 or permission of instructor.

ARGN 465
EXTERNSHIP AND FIELD EXPERIENCE I 2.0-8.0
Involvement beyond the campus in a museum, art institution, or industry, participation in inner-city art programs, or study with an independent artist, or artist-craftsperson. Approval by a supervising faculty member required. Total semester hours from externship and field experience courses combined (ARGN 465, 466, 467, 468) shall not exceed 8 hours.
Prerequisite: Instructor's permission

ARGN 466
EXTERNSHIP AND FIELD EXPERIENCE II 2.0-8.0
Continuation of ARGN 465.
Prerequisites: ARGN 465; instructor's permission.

ARGN 467
EXTERNSHIP AND FIELD EXPERIENCE III 2.0-8.0
Continuation of ARGN 466.
Prerequisite: ARGN 466; instructor's permission.

ARGN 468
EXTERNSHIP AND FIELD EXPERIENCE IV 2.0-8.0
Continuation of ARGN 467.
Prerequisite: ARGN 467; instructor's permission.

ARGN 470
ADVANCED COMPUTER GRAPHICS FOR THE GRAPHIC DESIGNER 3.0
Advanced problems in graphic design on the Macintosh computer. Emphasis will be placed on utilizing the Macintosh for solving design problems. Advanced page layout and graphic programs will be explored. Course is oriented toward the graphic designer.
Prerequisite: ARED 460.

ARGN 475
DRAWING VI 3.0
Continuation of ARGN 340.
Prerequisite: ARGN 340.

ARGN 486
VISUAL ARTS STUDIO IV 3.0
Continuation of ARGN 339. For students with limited experience.
Prerequisite: ARGN 339.

ARHS 105
ART AND CIVILIZATION I
The history of art from its beginning to the present: museum visits and extensive reading. Required for Fine Arts majors. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 106
ART AND CIVILIZATION II 3.0
Continuation of ARHS 105. Required for Fine Arts majors. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.
Prerequisite: ARHS 105.

ARHS 108
WOMEN IN ART 3.0
The role and status of women in art from the Old Stone Age through the present; the special roles of women in the past in society, the role of women artists in Western culture from the Renaissance to the present; depictions of women in different iconographic categories; women as artists today. Meets the General Education Requirement Fine and Performing Arts: Art Appreciation.

ARHS 200
RESOURCES AND METHODS OF RESEARCH IN THE ARTS 3.0
Bibliographic and other scholarly resources; the special problems of scholarship and research.

ARHS 215
ANCIENT ART 3.0
The origins of man's art and the civilizations of the ancient world; Paleolithic man and the Sumerian, Hittite, Assyrian, Phoenician and Egyptian civilizations. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 216
RENAISSANCE ART IN ITALY: THE FIFTEENTH CENTURY 3.0
The formation of Renaissance painting, sculpture and architecture during the Quattrocento; Masaccio, Mantegna, Donatello, Brunelleschi, and Alberti emphasized.

ARHS 217
SELECTED MASTERPIECES OF WORLD ART 3.0
An introduction to key works of art representing prehistoric cultures, the Ancient World, the East, the Renaissance, and the modern period. Museum and gallery trips, reading and discussion. For non-art majors. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 220
ART IN NON-WESTERN SOCIETIES 3.0
A consideration of the role of art in traditional non-western societies. Includes an examination of the integration of art into the society as a whole—the religions, economics, environment, and social order. The role art plays in social change and how it is affected by social change. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

ARHS 250
MODERN PHILOSOPHIES OF ART 3.0
The work of major writers about art in the nineteenth and twentieth centuries; the nature of the creative experience, the function of art in the life of the individual and of society, the nature of the creative process, the rise of new materials and institutions; the development of sentiments and attitudes affecting thinking in the field. Meets the General Education Requirement - Humanities, General Humanities.

ARHS 275
AFRO-AMERICAN ART 3.0
Afro-American art in the United States from colonial times to the present. Meets the General Education Requirement Fine and Performing Arts: Art Appreciation. Meets the Minorities Culture Requirement.

ARHS 322
EARLY CHRISTIAN-BYZANTINE ART 3.0
The emergence and development of early Christian art from its classical and late classical antecedents and its development up to Byzantine art.

ARHS 323
MEDIEVAL ART 3.0
Painting, sculpture and architecture in the Romanesque and Gothic Periods.

ARHS 324
NORTHERN RENAISSANCE PAINTING 3.0
Fifteenth and sixteenth century painting in northern Europe with particular attention to Flanders and Holland; emphasis on Jan Van Eyck, Van Der Weyden, Bosch, Peter Bruegel and Matthias Gruenewald.

ARHS 325
SEVENTEENTH AND EIGHTEENTH CENTURY ART 3.0
Painting, sculpture, and architecture in western Europe from 1600 to 1800; Baroque and Rococo styles with emphasis on El Greco, Bernini, Rubens, Rembrandt, Poussin and Watteau.

ARHS 326
THE CRITICAL APPROACH 3.0
Historical criticism, criteria in art criticism, and an analysis of the critical process.

ARHS 327
HISTORY OF ORIENTAL ART 3.0
The factors that shaped oriental society; the art of China, Korea, Japan, India, Southeast Asia and the neighboring Islamic world. Meets the General Education Requirement Fine and Performing Arts: Art Appreciation.

ARHS 328
SURVEY OF GREEK ART 3.0
Greek art including painting, sculpture and architecture from the Bronze Age through the Hellenistic period. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 329
AMERICAN ART 3.0
Art in the United States from the colonial period through the nineteenth century; the development of an American style in the light of its relationship to and dependence upon European art.

ARHS 450
MODERN ARCHITECTURE 3.0
Major contributions to the development of modern architecture in the nineteenth and twentieth centuries; the development of styles, structural innovations and theories of design. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 451
CONTEMPORARY ART 3.0
The work of major artists of the twentieth century with particular reference to the dominant ideas of the period; readings, museum trips, discussion of contemporary writing and criticism.

ARHS 452
RENAISSANCE ART IN ITALY: THE SIXTEENTH CENTURY 3.0
The great masters of the Cinquecento: Leonardo, Michelangelo, Raphael, Giorgione and Titian; the emergence of Mannerist art and architecture in Rome, Venice, Florence and Bologna.

ARHS 454
FIELD TRIPS IN ART HISTORY 3.0
An intensive three week tour of major centers of art in conjunction with specific courses in art history, e.g., field trips in the United States or abroad.

ARHS 455
SELECTED PROBLEMS IN ART HISTORY 3.0-8.0
A seminar in topics like the works of an individual artist or a particular theme in art history (e.g. the human figure) or a particular technique (e.g. sculpture); lectures, reports, museum and studio visits, discussion. May be repeated for credit.

ARHS 458
TRADITIONAL ARTS OF SUB-SAHARAN AFRICA 3.0
The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings; relation to ceremony and to daily life; symbolism and relations to the arts of other cultures. Meets the Minorities Culture Requirement.

ARHS 459
ART OF THE NINETEENTH CENTURY 3.0
The major movements of the nineteenth century: Classicism, Romanticism and Realism; the salon at midcentury; Impressionism; Post-Impressionism.

ARHS 462
SENIOR SEMINAR 3.0
Seminar in selected artistic problems of historic, social and philosophical nature.
Prerequisite: Instructor's permission.

ARHS 469
ART OF THE TWENTIETH CENTURY 3.0
From Picasso to today; scientific and social forces transforming the artist's vision, including the theories of Freud and Bergson.

ARHS 483
INDEPENDENT STUDY IN ART HISTORY 2.0-8.0
May be repeated for credit.
Prerequisite: Instructor's permission.

ARHS 485
ANCIENT ART IN ITALY: ETRUSCAN AND ROMAN ART 3.0
The arts of the Etruscans and Romans in their historical, cultural and religious settings.

ARMT 202
CERAMICS: POTTERY AND SCULPTURE I 3.0
Forming methods, clay composition, glazing and firing, the history of ceramics. Meets the General Education Requirement - Electives, Creative Expression.

ARMT 203
CERAMICS: POTTERY AND SCULPTURE II 3.0
Continuation of ARMT 202. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 202.

ARMT 204
FIBERS AND FABRICS I 3.0
Techniques employed by fiber artists and the textile industry; on-loom and off-loom weaving, spinning and vegetable dyeing, and fabric and fiber techniques in contemporary work. Meets the General Education Requirement - Electives, Creative Expression.

ARMT 205
FIBERS AND FABRICS II 3.0
One or more areas of endeavor selected for exploration. Emphasizes research into the various techniques and mastery of the methods. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 204.

ARMT 207
SURFACE DESIGN I 3.0
Selected printing, dyeing and fabric manipulation techniques. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 204.

ARMT 210
TEXTILE DESIGN I 3.0
Pattern rendering and putting designs into repeat for the textile industry. Meets the General Education Requirement - Electives, Creative Expression.

ARMT 211
TEXTILE DESIGN II 3.0
Advanced course in designing prints for the textile industry. Primary emphasis is the further development of a personal aesthetic appropriate to industry needs as well as that of the student-designer.
Prerequisite: ARMT 210.

ARMT 218
METALWORK AND JEWELRY I 3.0
Introduction to metal working and jewelry techniques traditionally used in the shaping of useful articles.

ARMT 219
METALWORK AND JEWELRY II 3.0
Advanced design concepts and metalworking techniques.
Prerequisite: ARMT 218.

ARMT 225
SURFACE DESIGN II 3.0
Continuation of ARMT 207. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 207.

ARMT 301
CERAMICS: POTTERY AND SCULPTURE III 3.0
Continuation of ARMT 203.
Prerequisite: ARMT 203.

ARMT 302
CERAMICS: POTTERY AND SCULPTURE IV 3.0
Continuation of ARMT 301.
Prerequisite: ARMT 301.

ARMT 304 FIBERS AND FABRICS III 3.0
Further exploration of a technique or techniques selected by the student. A research paper on the historical implications of a technique and a final project are required.
Prerequisite: ARMT 205.

ARMT 305
FIBERS AND FABRICS IV 3.0
Exploration of area or areas of textile techniques selected by the student. An exhibit of work done during the semester is to be planned and hung by the student.
Prerequisite: ARMT 304.

ARMT 320
SURFACE DESIGN III 3.0
Continuation of ARMT 225.
Prerequisite: ARMT 225.

ARMT 325
SURFACE DESIGN IV 3.0
Continuation of ARMT 320.
Prerequisite: ARMT 320.

ARMT 335
METALWORK AND JEWELRY III 3.0
Traditional techniques, advanced design concepts and techniques.
Prerequisite: ARMT 219.

ARMT 350
CERAMICS: POTTERY AND SCULPTURE V 3.0
Continuation of ARMT 302.
Prerequisite: ARMT 302.

ARMT 400
TEXTILE TRADITIONS 3.0
Study of the unchanged textile traditions of both the East and West and their relation to the contemporary fiber experience.

ARMT 401
HISTORY OF TEXTILES 3.0
The evolution of textile equipment and techniques from primitive cultures to the contemporary era.

ARMT 412
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE I 3.0
Topics for investigation selected with the approval of the instructor.

ARMT 413
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 412.

ARMT 414
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 413.

ARMT 415
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 414.

ARMT 416
INDEPENDENT STUDY IN TEXTILES I 3.0
Topics for investigation selected with the approval of the instructor.

ARMT 417
INDEPENDENT STUDY IN TEXTILES II 3.0
Topics for investigation are selected with the approval of the instructor.
Prerequisite: ARMT 416.

ARMT 418
INDEPENDENT STUDY IN TEXTILES III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 417.

ARMT 419
INDEPENDENT STUDY IN TEXTILES IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 418.

ARMT 420
SURFACE DESIGN V 3.0
Continuation of ARMT 325.
Prerequisite: ARMT 325.

ARMT 425
SURFACE DESIGN VI 3.0
Advanced studies in printing, dyeing and manipulation of fabric techniques.
Prerequisite: ARMT 420.

ARMT 436
METALWORK AND JEWELRY IV 3.0
Continuation of ARMT 335.
Prerequisite: ARMT 335.

ARMT 437
INDEPENDENT STUDY IN METALWORK AND JEWELRY I 3.0
Topics for investigation selected with the approval of the instructor.

ARMT 438
INDEPENDENT STUDY IN METALWORK AND JEWELRY II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 437.

ARMT 439
INDEPENDENT STUDY IN METALWORK AND JEWELRY III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 438.

ARMT 440
INDEPENDENT STUDY IN METALWORK AND JEWELRY IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 439.

ARMT 441
FIBERS AND FABRICS V 3.0
Continuation of ARMT 305.
Prerequisite: ARMT 305.

ARMT 442
FIBERS AND FABRICS VI 3.0
Continuation of comprehensive studies in progress through Fibers and Fabrics I-V.
Prerequisite: ARMT 441.

ARMT 480
CERAMICS: POTTERY AND SCULPTURE VI 3.0
Continuation of ARMT 350.
Prerequisite: ARMT 350.

ARPH 213
PHOTOGRAPHY I: A CONTEMPORARY ART FORM 3.0
The essentials of the photographic process including developing, enlarging, and exhibiting. Trips, films, discussions, lectures, criticism and demonstration. Meets the General Education Requirement - Electives, Creative Expression.

ARPH 214
INTERMEDIATE PHOTOGRAPHY: A CONTEMPORARY ART FORM 3.0
Continuation of ARPH 213. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARPH 213.

ARPH 310
ADVANCED PHOTOGRAPHY: A CONTEMPORARY ART FORM 4.0
Workshop, discussion, lecture, demonstrations, criticism; photography as an intensive learning experience; light sensitive materials, controls, photographic approach, selection, system and view camera.
Prerequisite: ARPH 214.

ARPH 311
SPECIAL PROCESS IN PHOTOGRAPHY 4.0
Non-traditional light sensitive materials for use in the photographic image-making process. Extension of traditional boundaries of photography through new tools permitting greater image manipulation: gum bichromate, cyanotype, platinum, photo etching, and others.
Prerequisite: ARPH 214.

ARPH 410
THE COLOR PHOTOGRAPHIC PRINT: A CONTEMPORARY ESTHETIC APPROACH 4.0
Photographic and printing techniques for color; history of color photographic print: museum and gallery visits.
Prerequisite: ARPH 310 or instructor's permission.

ARPH 425
INDEPENDENT STUDY IN PHOTOGRAPHY: CONTEMPORARY ART FORM I 3.0
Topics for investigation selected with the approval of the instructor.

ARPH 426
INDEPENDENT STUDY IN PHOTOGRAPHY: CONTEMPORARY ART FORM II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARPH 425.

ARPH 427
INDEPENDENT STUDY IN PHOTOGRAPHY: CONTEMPORARY ART FORM III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARPH 426.

ARPH 428
INDEPENDENT STUDY IN PHOTOGRAPHY: CONTEMPORARY ART FORM IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARPH 427.

ARPH 450
COMMERCIAL PHOTOGRAPHY 4.0
Workshop and problem solving of commercial applications in photography; view camera to 35mm, color and black and white materials, studio lighting, photo illustration, photo essay, marketing. Field trips, visiting professionals.
Prerequisite: ARPH 310, majors only.

ARPH 484
A HISTORY OF PHOTOGRAPHY 3.0
The roots of photography, its practitioners and the social and historical circumstances surrounding its creation.

ARPR 120
INTRODUCTION TO PRINTMAKING 3.0
Woodcut, screen printing and monoprints; etching, drypoint and lithography. Exploration of new and advanced techniques. Meets the General Education Requirement - Electives, Creative Expression.

ARPR 200
INTRODUCTION TO ETCHING AND RELIEF PRINTING 3.0
Drypoint, engraving, etching and major techniques like line and open bite, soft ground, stop out procedure, lift ground, mezzotint and aquatint. Meets the General Education Requirement - Electives, Creative Expression.

ARPR 201
INTRODUCTION TO SCREEN PRINTING 3.0
Screen printing including miskit, tusche, glue, lacquer and stencil and photographic techniques.

ARPR 230
HISTORY Of THE PRINT 3.0
The principal types of prints from their beginnings to today. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARPR 334
MEDIA COMMUNICATION I: PUBLICATION DESIGN 3.0
Advanced design problems for publications ranging from posters to brochures, pamphlets and booklets to magazines and other editorial formats emphasizing two-dimensional multiple page or multiple panel layout. Character count and projection of space requirements, economics of paper stock and size selection, exploiting the potential of one, two and three color jobs through screens and overprinting.
Prerequisites: ARGN 212, 313, 375, 415, 460, or instructor's permission.

ARPR 340
MEDIA COMMUNICATION II: PACKAGE DESIGN 3.0
A survey of the state of the art in packaging. Course projects will be based on the consumer product industry. Graphic problems for three-dimensional objects and display. Package design comprehensive techniques for art director and client presentation. Grasping product essence and interpreting client needs and the demands of the marketplace.
Prerequisite: ARPR 334.

ARPR 344
TYPOGRAPHY I 3.0
Advanced problems of typographic design including headline letter spacing, complex problems of body copy design and the fine points of leading, column width, copy color, mixing of faces, and use of negative space in typographic composition so that an idea is communicated without actually being read. Study of the great designers of typography in our time and the subtleties of personal style. Current trends in typography.
Prerequisites: ARGN 212, 313, 375, 415, 460 or instructor's permission.

ARPR 348
TYPOGRAPHY II: CORPORATE IDENTIFICATION SYSTEMS AND LOGO DESIGN 3.0
Analysis of identity systems from cottage industries to corporate giants. Development, presentation, consistency and projected public image. Historical roots of identity symbols and systems from ancient to contemporary in religious, political and social usage. Design problems in logo and system design.
Prerequisites: ARPR 344, ARGN 212, 313, 375, 415.

ARPR 350
ILLUSTRATION I: SURVEY OF CONCEPTS AND METHODS 3.0
A study of the major historical and contemporary themes of illustration and its influences. Through slide presentation the work of leading illustrators will be shown and discussed and the relationship between illustration and fine art will be explored. Illustration assignments will provide concrete experience of the related thematic issues and introduce formal approaches and relevant techniques.
Prerequisite: ARGN 212.

ARPR 352
ILLUSTRATION II 3.0
Approaches to illustration and applications of illustration techniques within selected professional fields, such as book illustration and children's book illustration; media illustration; record, greeting card and poster illustration; and humorous and satirical illustration. One of these professional fields will be explored each semester, in rotation.
Prerequisite: ARPR 350.

ARPR 354
ILLUSTRATION III 3.0
Continuation of Illustration II.
Prerequisite: ARPR 352.

ARPR 356
ILLUSTRATION IV 3.0
Continuation of Illustration III.
Prerequisite: ARPR 354.

ARPR 363
ADVANCED PRINTMAKING I 3.0
Consideration of printmaking media; particular attention to the growth and development of art-making concepts as they relate to the printmaking processes.

ARPR 364
ADVANCED PRINTMAKING II 3.0
Continuation of ARPR 363.
Prerequisite: ARPR 363.

ARPR 400
ADVANCED PRINTMAKING III 3.0
Continuation of ARPR 364.
Prerequisite: ARPR 364.

ARPR 401
ADVANCED PRINTMAKING IV 3.0
Continuation of ARPR 400.
Prerequisite: ARPR 400.

ARPR 431
INDEPENDENT STUDY IN PRINTMAKING I 3.0
Topics for investigation selected with approval of instructor.

ARPR 432
INDEPENDENT STUDY IN PRINTMAKING II 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPR 431.

ARPR 433
INDEPENDENT STUDY IN PRINTMAKING III 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPR 432.

ARPR 434
INDEPENDENT STUDY IN PRINTMAKING IV 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPR 433.

ARPR 470
INDEPENDENT STUDY: MULTI-IMAGE MEDIA 4.0
Use of media for presentation, exhibition or publication. Topics selected with the approval of the instructor.

ARPT 200
PAINTING I 3.0
Exploration of painting media and modes of expression. Reading, gallery and museum visits. Meets the General Education Requirement - Electives, Creative Expression.

ARPT 201
PAINTING II 3.0
Continuation of ARPT 200. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARPT 200.

ARPT 210
VISUAL ARTS WORKSHOP 1.0-12.0
Selected studio topics which represent current concerns within the contemporary world of the visual arts. May be repeated for credit.

ARPT 211
SCULPTURE I 3.0
Sculptural concepts using materials like plaster, metal, plastics, stone and wood. Gallery and museum visits. Meets the General Education Requirement - Electives, Creative Expression.

ARPT 212
SCULPTURE II 3.0
Continuation of ARPT 211. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARPT 211.

ARPT 215
ART FORUM 3.0
A series of lectures/presentations by artists, critics, museum directors, art historians; and visits to museums and galleries. Introduces students to the creative process, philosophies of art, and the role of art in life. May repeat. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARPT 249
SCULPTURE: CLAY I 3.0
The use of clay to create sculptural forms; emphasis on developing skills and strengthening understanding of sculpture as an art form. Finished works may be composed of fired clay or unfired clay or clay in combination with other materials. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 202.

ARPT 250
FIGURATIVE PAINTING 3.0
Rendering the human figure and expressing creative insights into figurative painting. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisites: ARPT 200, instructor's permission.

ARPT 259
SCULPTURE: CLAY II 3.0
Continuation of ARPT 249. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARPT 249.

ARPT 308
SCULPTURE III 3.0
Continuation of ARPT 212.
Prerequisite: ARPT 212

ARPT 309
SCULPTURE IV 3.0
Continuation of ARPT 308.
Prerequisite: ARPT 308.

ARPT 316
PAINTING III 3.0
Continuation of ARPT 201.
Prerequisite: ARPT 201.

ARPT 317
PAINTING IV 3.0
Continuation of ARPT 316.
Prerequisite: ARPT 316.

ARPT 349
SCULPTURE CLAY III 3.0
Continuation of ARPT 259.
Prerequisite: ARPT 259.

ARPT 408
INDEPENDENT STUDY: PAINTING I 3.0
Topics for investigation selected with approval of instructor.

ARPT 409
INDEPENDENT STUDY PAINTING II 3.0
Topic for investigation selected with approval of instructor.
Prerequisite: ARPT 408.

ARPT 410
INDEPENDENT: STUDY PAINTING III 3.0
Topic for investigation selected with approval of instructor.
Prerequisite: ARPT 409.

ARPT 411
INDEPENDENT STUDY PAINTING IV 3.0
Topic for investigation selected with approval of instructor.
Prerequisite: ARPT 410.

ARPT 415
PAINTING V 3.0
Continuation of ARPT 317.
Prerequisite: ARPT 317.

ARPT 416
PAINTING VI 3.0
Continuation of ARPT 415.
Prerequisite: ARPT 415.

ARPT 489
SCULPTURE: CLAY IV 3.0
Continuation of ARPT 349.
Prerequisite: ARPT 349.

ARTH 250
INTRODUCTION TO ART THERAPY 3.0
An historical and theoretical overview including the literature and current trends in the field. Students will use a variety of art materials to express personal symbolism, fantasy, and dreams. Open to non-majors. Meets the General Education Requirement - Electives, Personal/Professional Issues.

ARTH 310
GROUP ART THERAPY AND CREATIVITY DEVELOPMENT 3.0
Students will participate in small art therapy groups where under the guidance of a registered art therapist emerging themes (life situations, choices, attitudes, self-concepts, norms, etc.) will be explored. Open to non-majors. Meets the General Education Requirement - Electives, Personal/Professional Issues.

ARTH 450
STUDIO TECHNIQUES IN ART THERAPY 3.0
Materials and techniques of art therapy are directly experienced through practice. Open to all.
Prerequisite: ARTH 250.

ARTH 460
ART THERAPY PRACTICE 3.0
Discussion of case presentations from fieldwork to integrate clinical and didactic experiences.
Prerequisite: ARTH 450.



French

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Madeleine Sergent

The department of French provides courses that develop linguistic skills, literary appreciation, and an understanding of the French people and their culture.

French majors may choose the translation-interpretation concentration to enhance their linguistic skills or to enter careers related to international organizations. They may also take related business courses.

Students may specialize in teacher education and prepare for careers as secondary school teachers. Students may also select a minor or a second teaching field in French.

Study Abroad

It is highly recommended that majors spend a year, a semester, or a summer studying in a French speaking country. This study should preferably be planned for the junior year. The French Department has affiliated itself with the Universities of Massachusetts, and of Caen, France, for Study Abroad programs in Caen, Paris, Angers and Dijon for full-year, semester or summer study. Other options may also be possible.

After successful completion of the program, credits will be granted by evaluation. Students may earn up to 30 semester hours for a full year of study.

French Major

Required Courses (Liberal Arts)

			Semester Hours
FREN	150,151	French Stylistics and Composition I, II	3 each
FREN	155	French Phonetics	2
FREN	250	Advanced Composition	3
FREN	220	Explication de Texte	3
FREN	201	17th Century French Literature (Prerequisite: FREN 220)	3
FREN	210	18th Century French Literature (Prerequisite: FREN 220)	3
FREN	301	19th Century French Literature (Prerequisite: FREN 220)	3
FREN	310	20th Century French Literature (Prerequisite: FREN 220)	3
FREN	360	French Perspectives (Prerequisite: FREN 220)	3

Electives (Major)

Select at least 8 semester hours from the appropriate list to be obtained from the department 8
Minimum Semester Hours **37**

Teacher Education

FREN	150, 151	French Stylistics and Composition I, II	3 each
FREN	155	French Phonetics	2
FREN	250	Advanced Composition	3
FREN	220	Explication de Texte	3
FREN	310	20th Century French Literature (Prerequisite: FREN 220)	3
FREN	360	French Perspectives	3
FREN	410	Advanced French Grammer	3

Select Two

FREN	201	17th Century French Literature (Prerequisite: FREN 220)	3
FREN	210	18th Century French Literature (Prerequisite: FREN 220)	3
FREN	301	19th Century French Literature (Prerequisite: FREN 220)	3

Electives (Major)

Select at least 8 semester hours from the appropiate list to be obtained from the department 8
LNGN 210 Introduction to General Linguistics 3
(Recommended for all French majors.)
Minimum Semester Hours **37**

Concentration Programs Within the Major Translation

Required Courses

			Semester Hours
FREN	150, 151	French Stylistics and Composition I, II	3 each
FREN	155	French Phonetics	2
FREN	160	French Civilization: 19th and 20th Centuries	3
FREN	220	Explication de Texte	3
FREN	250	Advanced Composition	3
FREN	310	20th Century French Literature	3
FREN	350	Translation I	3
FREN	351	Translation II	3
FREN	360	French Perspectives	3
FREN	365	Introduction to Consecutive and Simultaneous Interpreting	3
OR			
FREN	452	Translation III	3
FREN	410	Advanced French Grammer	3

Electives (Major)

From the appropriate list, select 6 semester hours of which 3 s.h. must be in literature 6
Total Semester Hours **41**

French Minor

Required Courses (Liberal Arts Emphasis)

FREN	150, 151	French Stylistics and Composition I, II	3 each
FREN	155	French Phonetics	2
FREN	220	Explication de Texte	3

Electives (Major)

French Literature and Civilization 7
Minimum Semester Hours **18**

Required Courses (Business Emphasis)

			Semester Hours
FREN	121, 132	Intermediate French I, II	3 each
FREN	150, 151	French Stylistics and Composition I, II	3 each
FREN	135	Commercial French I	3
FREN	145	Introduction to French Culture	3
FREN	165	Spoken Language Practice	3
Total Semester Hours			**21**

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. In addition, French majors must have a "B" average in French, take the Teacher Education courses under the French Major Requirements, and FREN 419 The Teaching of French in Secondary Schools.

Second Teaching Field in French

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

Required Courses

FREN 150, 151 French Stylistics and Composition I, II ..... 3 each
FREN 155 French Phonetics 2
FREN 220 Explication de Texte 3
FREN 250 Advanced Composition 3
FREN 165 Spoken Language Practice 3
FREN 410 Advanced French Grammar 3

Electives

From the appropriate list, select 10 semester hours of which 3 s.h. must be in literature and 3 s.h. in civilization 10

NOTE: If a student has not taken a teaching methods course in a foreign language, it is necessary to take FREN 419, The Teaching of French in Secondary Schools.

Total 30

Courses of Instruction

FREN 101
BEGINNING FRENCH I 3.0
For students starting French in college, or students who have been placed at this level after taking the placement test. The fundamentals of speaking, reading and writing through classroom drill, video cassettes and laboratory work. Meets the General Education Requirement - Foreign Language.

FREN 112
BEGINNING FRENCH II 3.0
For students having completed Beginning French I or who have been placed at this level after taking the placement test. Continuation of basic skills through classroom drill, video-cassettes and laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite: FREN 101 or equivalent.

FREN 121
INTERMEDIATE FRENCH I 3.0
Developing of listening, reading and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available. Meets the General Education Requirement - Foreign Language.
Prerequisite: FREN 112 or equivalent.

FREN 132
INTERMEDIATE FRENCH II 3.0
Developing of listening, reading, and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available. Meets the General Education Requirement - Foreign Language.
Prerequisite: FREN 121 or equivalent.

FREN 135
COMMERCIAL FRENCH I 3.0
A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises.
Prerequisite: FREN 151 or equivalent.

FREN 136
COMMERCIAL FRENCH II 3.0
A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises.
Prerequisite: FREN 135 or equivalent.

FREN 145
INTRODUCTION TO FRENCH CULTURE 3.0
Various aspects of contemporary France such as politics, education social and artistic movements. Meets the General Education Requirement - Foreign Language.
Prerequisite: FREN 121.

FREN 146
READINGS IN FRENCH LITERATURE 3.0
Representative selections from major works and authors providing a general knowledge of French literature and socio-cultural movements through the ages. Meets the General Education Requirement - Foreign Language.
Prerequisite: FREN 121.

FREN 150
FRENCH STYLISTICS AND COMP I 3.0
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.
Prerequisite: FREN 132 or equivalent.

FREN 151
FRENCH STYLISTICS AND COMP II 3.0
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.
Prerequisite: FREN 150.

FREN 155
FRENCH PHONETICS 2.0
Weekly transcriptions, problems of articulation, rhythm, accentuation and intonation; intensive language laboratory work.

FREN 160
FRENCH CIVILIZATION 19TH AND 20TH CENTURIES 3.0
Various aspects of the material, intellectual, artistic, and spiritual life of France.

FREN 165
SPOKEN LANGUAGE PRACTICE 3.0
Intensive conversation with organized discussions on subjects of special interest.

FREN 201
SEVENTEENTH CENTURY FRENCH LITERATURE 3.0
The most representative authors of the century.

FREN 210
EIGHTEENTH CENTURY FRENCH LITERATURE 3.0
Main writings of the age of enlightenment.

FREN 220
EXPLICATION DE TEXTE 3.0
Improvement of reading skills and literary perception through the technique of the explication de texte, using examples from a wide variety of periods and genres.
Prerequisite: FREN 151.

FREN 250
ADVANCED COMPOSITION 3.0
A review of advanced grammar through intensive written and oral practice.

FREN 260
ORIGINS OF FRENCH CIVILIZATION 3.0
French history and cultural development from the Middle Ages to the Revolution.

FREN 265
ADVANCED SPOKEN LANGUAGE PRACTICE 3.0
Intensive conversation on an advanced level on selected and varied topics.

FREN 301
NINETEENTH CENTURY FRENCH LITERATURE 3.0
Principal literary currents from Romanticism to Symbolism.

FREN 310
TWENTIETH CENTURY FRENCH LITERATURE 3.0
Representative works of contemporary theater and the novel.

FREN 311
CONTEMPORARY FRENCH DRAMA 2.0
Theatre from the beginning of the century to the present.

FREN 340
SURVEY OF FRENCH POETRY 2.0
Development of principal poetic movements with emphasis on the 19th and 20th centuries.

FREN 345
DEVELOPMENT OF FRENCH NOVEL TO 1900 3.0
Evolution of fiction from the feminist writings of Mme De La Fayette and Diderot's. Literature of social involvement to the present.

FREN 349
FRANCOPHONE LITERATURE 3.0
Literature of French Expression outside continental France.

FREN 350
TRANSLATION I 3.0
Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.

FREN 351
TRANSLATION II 3.0
Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.
Prerequisite: FREN 350.

FREN 360
FRENCH PERSPECTIVES 3.0
A French viewpoint on contemporary problems emphasizing interrelationships of political, social and economic fields.

FREN 365
INTRODUCTION TO CONSECUTIVE AND SIMULTANEOUS INTERPRETING 3.0
The field of cross-cultural communications (with emphasis on the French-speaking world) and practice in the techniques of simultaneous and consecutive interpreting, French-English, English-French.
Prerequisites: FREN 350, 351.

FREN 367
SEMINARS 3.0-12.0
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

FREN 368
SEMINARS 3.0-12.0
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

FREN 369
SEMINARS 3.0-12.0
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

FREN 375
FRENCH STUDY ABROAD 3.0-6.0
Study at a university in a French-speaking country to gain first-hand knowledge of the historical, social, economic, and cultural life of the country. Credit by evaluation.
Prerequisite: Permission of department chairperson.

FREN 380
COOPERATIVE EDUCATION FOR THE FRENCH MAJOR 4.0-8.0
Supervised work experience and academic project in professional field related to major.

FREN 410
ADVANCED FRENCH GRAMMAR 3.0
A review of the most important structural features of French, with special emphasis on areas of interference with English structure.

FREN 419
THE TEACHING OF FRENCH IN SECONDARY SCHOOLS 3.0
Lesson planning; evaluation of techniques; demonstration of teaching procedures, teaching aids, exploration of direct method and audio-lingual approaches.

FREN 452
TRANSLATION III 3.0
Translation of articles in specific fields of interest to improve translation skills.
Prerequisites: FREN 350, 351.

FREN 470
SEMINARS 3.0-12.0
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

FREN 472
FRENCH LANGUAGE WORKSHOP 2.0
A thorough foundation in French at the level required for successful graduate studies.

FREN 478
INDEPENDENT STUDY 1.0-3.0
Directed independent study and research in French language and literature.



German and Russian

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: John V. Moore

A command of the German or Russian language with an understanding of the respective literature and culture is the object of the courses offered by the department. The German program offers a liberal arts major, a teacher education major plus a second teaching field and a liberal arts minor. The Russian program offers a liberal arts minor and a second teaching field, as well as required courses for the Russian Area Studies minor.

Study Abroad

It is highly recommended that majors spend a year, a semester or a summer studying in a German-speaking country. This study should preferably be planned for the junior year. Montclair state College has a student exchange program with the University at Graz, Austria, which includes a generous scholarship.

After successful completion of the program, credits will be granted by evaluation.

German Major

Required Courses

	Semester Hours
GERM 141 Review of Fundamental Grammer	3
GERM 151, 152 Advanced German I, II	3 each
GERM 251, 252 Introduction to German Literature I, II	3 each
GERM 351, 352 German Civilization I, II	3 each

Electives (Major)

Select 12 semester hours from the appropriate list to be obtained from the department 12

German Minor

Required Courses

	Semester Hours
GERM 141 Review of Fundamental Grammar	3
GERM 151, 152 Advanced German I, II	3 each

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Russian Minor*

Required Courses

RUSS 101 and 112 Beginning Russian I, II	6
RUSS 121 and 132 Intermediate Russian I, II	6
RUSS 141 and 152 Advanced Russian I, II	6

Russian Area Studies Minor

Required Courses

RUSS 101, 112 Beginning Russian I, II	6
Soviet History or Political Science (see department entries)	6

Electives (Departmental)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Electives (Interdepartmental)

The Russian Area Studies minor is interdisciplinary, and appropriate elective courses may be selected from the Departments of History, Political Science, Geography, and Economics, as well as from offerings in Russian language, literature and civilization, with permission of the program coordinator.

*Other courses may be selected under certain circumstances with departmental approval.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. The following are the departmental course requirements for the program, in addition to the courses listed above for the German major.

	Semester Hours
GERM 410 German Grammar: Applied Linguistics	3
GERM 419 Teaching German in Secondary School	3

Electives (Not required but recommended)

GERM 142 Practice in Written German	3
GERM 209 Phonetics and Phonology	3

Second Teaching Field In German

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

GERM 141 Review of Fundamental Grammar	3
GERM 151, 152 Advanced German I, II	3 each
GERM 251, 252 Introduction to German Literature I, II	3 each
5 additional courses in German GERM beyond intermediate level	15

Second Teaching Field in Russian*

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

RUSS 101 and 112 Beginning Russian I, II	6
RUSS 121 and 132 Intermediate Russian I, II	6
RUSS 141 and 152 Advanced Russian I, II	6
GNHU 293 Russian Culture and Civilization	3
GNHU 294 Russian Prose and Drama	3
Courses from related fields (by advisement)	6

*Under certain circumstances and with permission of the department chairperson, other selected courses may be counted.

Courses of Instruction

GERM 101
BEGINNING GERMAN I 3.0
For students with no previous instruction in German. Emphasis on speaking, with practice in reading and writing German. Laboratory work. Meets the General Education Requirement - Foreign Language.

GERM 112
BEGINNING GERMAN II 3.0
Emphasis on speaking, with practice in reading and writing German. Laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 101 or equivalent.

GERM 121
INTERMEDIATE GERMAN I 3.0
Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 112 or equivalent.

GERM 132
INTERMEDIATE GERMAN II 3.0
Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 121 or equivalent.

GERM 141
REVIEW OF FUNDAMENTAL GRAMMAR 3.0
Oral and written practice for better control of language structure. Required for freshman majors, who are given admission preference.
Prerequisites: GERM 132 or equivalent.

GERM 142
PRACTICE IN WRITTEN GERMAN 3.0
Increasingly difficult assignments to develop command of idiomatic German. Strongly recommended for majors desiring teacher certification.
Prerequisite: GERM 141.

GERM 151
ADVANCED GERMAN I 3.0
Continuation of Intermediate German on a more advanced level. Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors who are given admission preference. Meets the General Education Requirement - Foreign Language.
Prerequisites: GERM 132 or equivalent.

GERM 152
ADVANCED GERMAN II 3.0
Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshmen majors, who are given admission preference. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 151.

GERM 209
PHONETICS AND PHONOLOGY 3.0
Application of phonetic science to the acquiring and teaching of good pronunciation; the international phonetic alphabet; problems of articulation; rhythm, accentuation and intonation. Strongly recommended for majors desiring teacher certification.

GERM 251, 252
INTRODUCTION TO GERMAN LITERATURE I, II 3.0 each
Standard works of German literature from the classical period to the present; methods of literary interpretation; developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given preference. Meets the General Education Requirement - Foreign Language.
Prerequisite for GERM: 252: GERM 251.

GERM 309
PRACTICE IN SPOKEN GERMAN 3.0
Intensive conversation practice to improve fluency and increase active vocabulary.

GERM 310
ADVANCED COMPOSITION 3.0
Intensive written exercises to improve command of the German language; some oral work

GERM 315
TRANSLATION I 3.0
Intensive practice in the skills of translating professional texts from German into English and from English into German.
Prerequisite: Instructor's permission.

GERM 316
TRANSLATION II 3.0
Continuation of GERM 315 with more intensive exposure to the skills of translation. Recommended for qualified students interested in a possible future career as bilingual secretary, translator of commercial texts, etc.
Prerequisite: GERM 315, instructor's permission.

GERM 317
TRANSLATION III 3.0
Continuation of GERM 316 with conclusion of training in international business translation. Development of increasingly sophisticated skills required to translate professionally in a variety of fields. Emphasis on translation from German into English.
Prerequisite: GERM 316, instructor's permission.

GERM 318
TRANSLATION IV 3.0
Continuation of GERM 317 with increasingly technical and specialized texts translated into the student's native language. Two individual projects in two areas of special interest.
Prerequisite: 317, instructor's permission.

GERM 320
DEVELOPMENT OF THE GERMAN LANGUAGE 3.0
Background, growth, and structure of the German language from the Indo-European and Germanic beginnings to the language as spoken today; historical explanation of modern German grammar.

GERM 341
GERMAN LITERATURE FROM THE ORIGINS TO THE REFORMATION 3.0
Works representative of the Old High German, Middle High German, and late medieval periods read in modern German version. The most important genres and trends, ending with excerpts from Luther's works.

GERM 342
GERMAN LITERATURE FROM THE 16TH TO THE 18TH CENTURIES 3.0
Representative works illustrating the trends preceding the classical period.

GERM 351
GERMAN CIVILIZATION I 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference. Meets the General Education Requirement - Foreign Language.

GERM 352
GERMAN CIVILIZATION II 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of divided Germany; re-unification, the respective political and educational systems and cultural trends. Required of junior majors, who are given admission preference. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 351.

GERM 360
MODERN GERMAN PROSE FICTION 3.0
Reading and discussion of great German novels and novellas of the 19th and 20th centuries, the personal and stylistic characteristics of the authors; the literary periods they represent.

GERM 364
GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES 3.0
Reading and discussion of outstanding plays and dramatists from Goethe's death to the present; interpretation and theories of dramas.

GERM 375
GERMAN STUDY ABROAD 3.0-6.0
Study at a university in a German-speaking country to gain first-hand knowledge of the historical, social, economic, and cultural life of the country. Credit by evaluation.
Prerequisite: Permission of department chairperson.

GERM 380
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.

GERM 381
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability, and responsibility necessary to pursue a special scholarly interest.

GERM 385
COOPERATIVE EDUCATION FOR GERMAN MAJORS 4.0-8.0
This course provides opportunity for the student to extend the academic learning experience beyond the campus by placing him/her in meaningful learning situations with thoroughly screened and approved employers. This supervised work experience, connected with an academic project in a professional field related to the major, will enhance the student's professional qualifications.
Prerequisites: Minimum junior status; minimum 3.00 cumulative grade point average.

GERM 410
GERMAN GRAMMAR: APPLIED LINGUISTICS 3.0
A review of the most important structural features of German; areas of interference with English structure which present the greatest difficulties to the American student of German. Required for majors desiring teacher certification.

GERM 419
TEACHING GERMAN IN SECONDARY SCHOOLS 3.0
The aims, objectives and methods used in teaching German in secondary schools; textbooks supplementary teaching materials, language laboratory, tests, etc. Required for majors desiring teacher certification.

GERM 441
THE AGE OF GOETHE 3.0
The life and works of Goethe; his continuing importance; reading from all important genres in which Goethe wrote.

GERM 442
THE AGE OF SCHILLER 3.0
The life and works of Schiller; his continuing importance; reading from the dramas, essays and poems.

GERM 460
SENIOR SEMINAR 3.0
Study in depth of significant figures not adequately treated elsewhere in the departmental offerings (Holderlin, Kleist, etc.) or detailed study of special literary groups (German symbolist poets, etc.). Each student produces a research paper.

GERM 480, 481
INDEPENDENT STUDY IN GERMAN (SENIOR LEVEL) 3.0 each
Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.

GRIN 293
RUSSIAN CULTURE AND CIVILIZATION 3.0
The history of Russian culture from the early stages of Slavic civilization to the modern Soviet period. Special emphasis is placed on the role of the arts, especially literature, as a reflection of philosophical, political, and cultural change. No knowledge of Russian is required. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Also listed as GNHU 293.

GRIN 294
RUSSIAN PROSE AND DRAMA 3.0
Russian prose and drama from the 18th century to the present day. Representative works of Gogol, Turgenev, Dostoevski, Tolstoi and Gorki. No knowledge of Russian is required. Taught in English.

GRIN 295
GERMAN EXPRESSIONISM 3.0
Various aspects of German expressionism. Encompassing roughly the period between the two world wars; the political and social climate of the Weimar republic; literature, painting, sculpture, music and the film of that era; defining expressionism as a specific historical period as well as a perennial stylistic device. Taught in English.

RUSS 101, 112
BEGINNING RUSSIAN I, II 3.0 each
The fundamentals of grammar and pronunciation. Lab work. Meets the General Education Requirement - Foreign Language.
Prerequisite for RUSS 112: RUSS 101 or equivalent.

RUSS 121, 132
INTERMEDIATE RUSSIAN I, II 3.0 each
Continuation of Russian 101 and 112. Open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation, more advanced coversation. Lab work. Meets the General Education Requirement - Foreign Language.
Prerequisite for RUSS 121: RUSS 101 or equivalent.
Prerequisite for RUSS 132: RUSS 121 or equivalent.

RUSS 141, 152
ADVANCED RUSSIAN I, II 3.0 each
Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite for RUSS 141: RUSS 132 or equivalent.
Prerequisite for RUSS 152: RUSS 141 or equivalent.

RUSS 478
INDEPENDENT STUDY IN RUSSIAN 1.0-3.0
Directed individual study and research in Russian for special students.
Prerequisite: Permission of instructor and department chairperson.

Health Professions

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Harry H. Hoitsma

The health professions are growing. Whether already certified in an allied health specialty and seeking a chance to move into management, or looking for a career as a health educator, the department offers courses to prepare students for emerging opportunities in selected aspects of the health field.

The Bachelor of Science degree in health education includes preparation for community health positions and the necessary professional courses for a teaching certificate. The Bachelor of Science in Allied Health Services is designed for continuing the education of those already certified in one of the many allied health specializations, including nursing. Here the course work develops leadership skills in management and supervision both at Montclair State and other cooperating institutions depending on the individual need.

Health Education Major

Required Courses

			Semester Hours
HLTH	207	Safety, Accidents, and Emergency Care	3
HLTH	210	Consumer Health	3
HLTH	213	Perspectives on Drugs	3
HLTH	220	Mental Health	3
HLTH	240	Foundations of Environmental Health	3
HLTH	290	Human Sexuality	3
HLTH	307	The Study of Human Diseases	3

HLTH 315 Community Health 3
HLTH 330 Foundations Of Health Education....3
HENU 182 Nutrition 3
BIOL 254 Applied Microbiology 3
HLTH 404 Foundations of Measurement and Evaluation in Health Education 3
HLTH 411 School Health and Community Services 3

Required Collateral Courses

BIOL 240 Mammalian Anatomy and Physiology I 3
BIOL 241 Mammalian Anatomy and Physiology II 3
CHEM 107 College Chemistry I 2
CHEM 109 College Chemistry Laboratory I 1
CHEM 108 College Chemistry II....2
CHEM 110 College Chemistry Laboratory II 1
HENU 182 Nutrition 3

Teacher Certification
Health Education, grades K-12

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. In addition the course HLTH 401 The Teaching of Health must be satisfactorily completed.

Professional Sequence
Community Health Services Concentration

HLTH 401 The Teaching of Health....4
HLTH 430 Health Counseling 3
HLTH 490 Health Education and the Computer 3
MEDI 400 Media for Trainers and Educators....3
Plus *one* course that includes treatment of the nature and function of management, to be selected following departmental advisement from among such courses as:
MGMT 311 Management Process and Organizational Behavior....4
or
PSYC 240 Industrial and Organizational Psychology 3
SOCI 335 Workers and Their Organizations....3
SOCI 336 The Sociology of the Helping Professions and Institutions 3
Plus the following courses in sequence:
HLTH 245 Observation of Health Agencies 2
HLTH 350 Field Study in Health 6
or
A comparable experience provided through the Cooperative Education Program:
COED 301 Cooperative Education Experience I....8

Required Collateral Courses

Semester Hours
BIOL 240 Mammalian Anatomy and Physiology I 3
BIOL 241 Mammalian Anatomy and Physiology II 3
CHEM 107 College Chemistry I 2
CHEM 109 College Chemistry Laboratory I 1
CHEM 108 College Chemistry II....2
CHEM 110 College Chemistry Laboratory II 1
HENU 182 Nutrition 3

Allied Health Services Major

Required Courses

Semester Hours
HLTH 315 Community Health 3
HLTH 455 Core Concepts in the Delivery of Health Care 3
HLTH 460 Systems of Health Services Delivery 3
MGMT 311 Management Process and Organizational Behavior....4
MGMT 316 Human Resource Management 3
or
MGMT 431 Middle and First Line Management 3
ACCT 201 Fundamentals of Accounting I....3
or
ACCT 200 Accounting for Non Business Majors 3
MATH 109 Statistics....3
COMP 108 Computers and Programming 3
or
BSED 273 Introduction to Computers in Business 3

Collateral Courses

ECON 101 Principles of Economics: Macro 3
ECON 102 Principles of Economics: Micro....3

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department....15

Electives (General)

Select 12 semester hours from the appropriate list to be obtained from the department....12

Technical Speciality in Allied Health

....24
Credits must be completed at or recognized by an academically accredited institution prior to transfer to Montclair State College.

Health Studies Minor

This eighteen semester-hour minor is designed especially for Liberal Arts students and other selected majors seeking to enhance their academic and/or professional preparation through selected study pertaining to the broad spectrum of health care delivery and related services. Following careful consultation with a departmental advisor, each candidate develops a sequence of coursework in three major areas: (1) Foundations of Health Study; (2) Basic Content in the Health Disciplines; and (3) Processes of Development, Implementation and/or Evaluation, particularly as these elements pertain to the respective major field of study.

The basic objectives of the Health Studies Minor are to: (1) enhance career opportunities related to a student's major academic and/or professional interests; (2) increase opportunities for continuing and advanced education in the health professions and/or in health-related disciplines; and (3) expand individual awareness of significant personal and community health issues, while providing for the refinement of one's decision-making capabilities in these contexts. Students seeking acceptance into the Health Studies minor must consult with a departmental advisor to determine the applicability of the Health Studies Minor to one's specific academic major and career goals. An eighteen-semester hour program of coursework must be established, including studies in each of the following categories:

A. Foundations of Health Study ....3-6 semester hours
B. Basic Content in the Health Disciplines....9-12 semester hours
C. Processes of Development, Implementation and/or Evaluation ....3-6 semester hours

Physical Education and Health
Dual Teacher Certification Requirement

The department offers a combined certification component in the Physical Education and Health program, provided in conjunction with the department of Physical Education, Recreation and Leisure Studies. Satisfactory completion of this dual certification program leads to eligibility for a single New Jersey certificate in Physical Education and Health. The Health Education component in this program is as follows:

Required Courses

	Semester Hours
HLTH 401 Teaching of Health	4
HLTH 290 Human Sexuality	3
HLTH 411 School Health and Community Services	3
HLTH 213 Perspectives on Drugs	3
Select One	
HLTH 210 Consumer Health	3
HLTH 220 Mental Health	3
HLTH 240 Foundations of Environmental Health	3
Select Two	
HLTH 307 The Study of Human Diseases	3
HLTH 315 Community Health	3

or any other HLTH health professions course with advisement.

Physical Education requirements in this program are described in the department of Physical Education, Recreation and Leisure Studies section of this catalog.

Courses of Instruction

HLTH 101
PERSONAL HEALTH ISSUES 3.0
Examines health as a variable entity having physiological, psychological and environmental dimensions. Employs an individualized participatory approach that includes assessing one's own health status and behavior; increasing competencies in making health related decisions; eliciting health promoting behaviors; and interpreting existing or proposed social actions that ultimately affect personal, family and community health. Meets the General Education Requirement - Electives, Personal/Professional Issues.

HLTH 105
MEDICAL TERMINOLOGY 3.0
A basic health course introducing elements of medical terminology describing body parts, systems, functions and medical procedures. Emphasis will be placed on development of medical vocabulary and communication skills. The course will provide learning episodes in formulating medical abbreviations and translating complex terminology into lay terms, that ultimately will be applicable to careers in medical writing, health care delivery and management.

HLTH 207
SAFETY, ACCIDENTS AND EMERGENCY CARE 3.0
Provides for study of major safety areas including transportation, public safety, industrial and home safety. Emergency health care, first aid treatment, and preventive measures are considered in the context of individual, agency and institutional responsibilities.

HLTH 210
CONSUMER HEALTH 3.0
Interpretation of individual economic activity as it relates to health service and health products. Includes analysis of factors influencing consumer health attitudes and behavior.

HLTH 213
PERSPECTIVES ON DRUGS 3.0
Provides for the study of licit as well as illicit drug use in contemporary society from the perspective of selected biomedical and psychosocial disciplines. Examines the effects of drugs on the individual and society in the context of changing social conditions and technological developments. Analyzes complex nature of the drug problem and rehabilitative and preventive measures and tentative solutions to this important aspect of human existence. Meets the General Education Requirement - Contemporary Issues.

HLTH 220
MENTAL HEALTH 3.0
Provides for the study of human emotional adjustment throughout the life cycle from biomedical and psychosocial perspectives. The factors that foster the development of emotional and mental well-being and the forces that contribute to the breakdown of human adjustment capabilities are identified and analyzed in light of research and clinical literature. Special attention is given to the strategies for the prevention of mental disorders and promotion of mental health. Meets the General Education Requirement - Electives, Personal/Professional Issues.

HLTH 232
EMERGENCY HEALTH CARE 2.0
Considers the nature, causes and treatment of emergency health problems (accident, heart failure and heart attack, drug overdose, etc.) surveys community emergency services and provides insight into the scientific foundations of emergency health problems and treatment procedures.

HLTH 240
FOUNDATIONS OF ENVIRONMENTAL HEALTH 3.0
Prepares student to make informed decisions concerning the avoidance or elimination of disease-causing environmental exposures by providing an understanding of the scientific principles by which these exposures are identified, measured, and judged as to their acceptability. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science.

HLTH 245
OBSERVATION OF HEALTH AGENCIES 2.0-3.0
An introductory field course designed to acquaint students with a wide range of school and community health programs and professional specializations in health. Provides a series of field visits and short-term placements under professional supervision. Open to all.
Prerequisites: HLTH 101, instructor's written permission prior to registration.

HLTH 290
HUMAN SEXUALITY 3.0
Provides for the study of human sexuality from the various biological, physiological sociological, and psychological perspectives and examines individual and community attitudes concerning sexual behavior. Includes such contemporary issues as abortion, sterilization, homosexuality, artificial insemination, and gender selection. Acquaints students with criteria and processes for understanding themselves as sexual beings in the context of the social environment which provides their opportunities and constraints. Meets the General Education Requirement - Electives, Personal and Professional Issues.

HLTH 307
THE STUDY OF HUMAN DISEASES 3.0
Provides a comprehensive study of diseases, their etiology, pathophysiology, diagnosis, prognosis, and treatment. Includes a review of causation theories and incidence patterns and focuses on major degenerative neoplastic metabolic, immunologic and infectious diseases. Attention is given to prevention and control measures with an emphasis on the role of selected health/medical resources in disease management.

HLTH 313
HEALTH CONSEQUENCES OF ALCOHOL USE AND ABUSE 3.0
The biological and pharmacological effects of alcohol use and abuse are examined. The health problems associated with abusive alcohol consumption are investigated and current research in this area is reviewed. Theories on the genesis of alcoholism relating to the individual, family and the community are studied.

HLTH 314
PUBLIC HEALTH ASPECTS OF ALCOHOL ABUSE 3.0
Examines the impact of alcohol abuse on public health. Society's attempts to diminish the impact are also explored. Includes study of effects of alcohol abuse on the family and workplace; prevention modalities and rehabilitation programs.

HLTH 315
COMMUNITY HEALTH 3.0
A basic course focusing on major health problems currently affecting the local, state, national and international scenes and includes consideration of political, social and economic factors. Special attention is directed to the public health organizations and agencies dealing with these health problems.
Prerequisite: Course in similar field.

HLTH 330
FOUNDATIONS OF HEALTH EDUCATION 3.0
Provides a comprehensive study of the scientific, social, behavioral, educational, and legal foundations of health education. Traces the evolution and interprets the impact of related professions on school, community and allied health education.

HLTH 347
HEALTH ISSUES FORUM 1.0-3.0
In-depth study of a single health issue of current public or professional concern including analysis of recent authoritative literature. Topic to be announced each semester. Course credit determined by nature and breadth of topics selected. With permission of the department, course may be taken more than once.
Prerequisites: Junior or senior standing specific prerequisites may be required for certain forum topics.

HLTH 350
FIELD STUDY IN HEALTH 2.0-6.0
Selected experiences in community health work through arrangements with various kinds of health agencies. Major projects developed under supervision of a faculty member and a qualified person in the health professions agency.
Prerequisites: Must obtain written approval of instructor prior to registration; course in similar field.

HLTH 401
THE TEACHING OF HEALTH 4.0
Traces historical development of health instruction examines characteristics of health learners, and compares different types of health education programs. Provides for use of the computer in health education. Requires demonstration of health education planning, teaching and evaluation skills.

HLTH 404
FOUNDATIONS OF MEASUREMENT AND EVALUATION IN HEALTH EDUCATION 3.0
Provides for the study of the concept and the process of measurement and evaluation in health education. Specific topics related to test selection, test construction, test administration, and analysis of test results are discussed within a broad theoretical framework and reinforced with practical experiences.

HLTH 406
SCHOOL NURSING 3.0
Comprehensive principles and practices of school nursing for promoting and safeguarding the health of school populations. Required for school nursing endorsement with certificate in educational services for registered nurses.

HLTH 411
SCHOOL HEALTH AND COMMUNITY SERVICES 3.0
Provides for an in-depth understanding of the school health program and community services. Includes study of school and health services, healthful school environment, and health education and community health services.

HLTH 430
HEALTH COUNSELING 3.0
Course focuses on factors influencing health and illness behavior with implication for behavioral intervention in health care. Included are the intervention strategies of prevention, crisis intervention, postvention and compliance, and the intervention techniques of assessment, interviewing, counseling skills and small group dynamics.

HLTH 440
HEALTH ASPECTS OF AGING 3.0
This course focuses upon changes in aspects of health during the middle and later years of life. Includes anatomy and physiology, nutritional requirements, sensoria and those phenomena associated with aging and sexuality. Common causes of morbidity and mortality explored as they relate to the aged. Attention given to the psychosocial and economic needs of the elderly as well as to those aspects of gerontology which deal with legislation and community organization.

HLTH 442
HEALTH PROMOTION IN THE WORKPLACE 3.0
Provides an overview of businesses' efforts to contain health care costs by establishing health promotion programs in the workplace. Criteria for prioritizing health promotion efforts are identified and applied to specific risk factor reduction efforts. The need to evaluate the cost-benefit of health promotion programs is emphasized and contemporary workplace health promotion issues are addressed.

HLTH 445
PERSPECTIVES ON DEATH 3.0
Exploration of the personal and social meanings of death. Formulation of realistic plans for living, through education about death.
Prerequisite: HLTH 220 or instructor permission.

HLTH 455
CORE CONCEPTS IN THE DELIVERY Of HEALTH CARE 3.0
Interdisciplinary analysis of patients care, supporting functions of health practitioners and human service principles underlying allied health professional-patient interactions.
Prerequisites: Six months of occupational experience in an allied health specialty. Course in similar field.

HLTH 456
CLINICAL INTERNSHIP IN ALLIED HEALTH 1.0-4.0
Provides placements in a series of clinical settings to provide pre-service and in-service health occupations educators with opportunities to gain first-hand knowledge of the practice of a variety of health occupations. The nature and sequence of the experiences will be determined by individual needs and professional objectives.
Prerequisites: Professional licensure in an allied health specialty, HLTH 441, course in similar field

HLTH 457
PROFESSIONAL ISSUES IN ALLIED HEALTH 3.0
To provide a comprehensive overview of issues and problems in allied health practice and an understanding of the roles and responsibilities of allied health professionals. Attention will be paid to allied health careers. Topics will vary according to current trends and developments in allied health practices.

HLTH 458
CURRICULUM AND TEACHINGS IN HEALTH OCCUPATIONS EDUCATION 3.0
Application of curriculum and teaching principles in secondary and post-secondary health occupations instructional problems. First semester: classroom teaching and special instructional methods. Second semester: clinical instruction, curriculum development and coordination of health occupations programs.
Prerequisite: PSYC 200 or HLTH 401.

HLTH 460
SYSTEMS OF HEALTH SERVICES DELIVERY 3.0
The organization, administration and functions of health services in the United States and other major nations; the social and professional policies which determine their scope and nature. Principal methods currently employed in the U.S. for analysis and evaluation of health care systems. Offers opportunity to students to relate these general understandings to those segments of the health services system of particular professional interest to themselves.
Prerequisite: Course in similar field or instructor's permission.

HLTH 470
PATIENT EDUCATION 3.0
Provides for an in-depth study of comprehensive patient education. Topics include historical development, roles and responsibilities of patient education, program planning and development, and evaluation of patient education programs.
Prerequisite: Majors only or instructor's permission.

HLTH 490
ETHICS IN HEALTH CARE 3.0
Ethics is recognized as a general area of concern for health care practitioners and administrators. Issues in health care ethics will be discussed, with emphasis on their impact on delivery and administration of health care, and the personal ethical dilemmas they impose upon the health care professional. Issues included are general health care ethics, the right to health care, allocation of scarce resources, control of death, and human experimentation.

HLTH 491
HEALTH EDUCATION AND THE COMPUTER 3.0
Provides students with a basic understanding of and skills in computer functions related to school and community health education programs. Emphasizes the use and evaluation of software for the planning implementation and evaluation of health education processes. Explores the use of video technologies and the potential impact of future developments in computer technology.

HLTH 495
WRITING FOR PUBLICATION IN HEALTH 3.0
General aim is to analyze and develop skills in the process of writing for publication in the health field. Students analyze health writing, meet published writers, interview editors, utilize health research facilities and submit a manuscript for publication. Permission of instructor required.

History

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Joel Schwartz

The study of history, in addition to being an important part of a broad liberal education, helps to prepare students for careers in teaching, law, government service, politics, journalism and creative writing, library science, business research, and positions with local, state or national archives, museums and historical societies or restorations agencies. The department offers specialized study mainly in American, European and Asian history. History majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools. A minor in history is also offered.

History Major

Required Courses

			Semester Hours
HIST	100	The Study of History	3
HIST	117	History of the United States to 1876	3
HIST	118	History of the United States since 1876	3
European History (Select one sequence)			6
HIST	103	Foundations of Western Civilization	
HIST	105	Emergence of European Civilization, 1500-1914	
or			
HIST	105	Emergence of European Civilization, 1500-1914	
HIST	106	Contemporary Europe, 1914 to the Present	
Non-Western/Latin American History			6
(One course from TWO of the following areas)			
Asia: China, India, Japan, Islamic			
Africa			
Latin America			
HIST	400	Senior Seminar in History	3

Electives

Select four history courses at the 200-400 level 12

Teacher Certification
(Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. The course SOSC 401 Methods of Teaching Social Studies is the departmental requirement.

The social studies teacher is expected to have a broad understanding of the cultural and environmental factors which shape the individual and society. To meet the approved program for certification in social studies, course work is required in each of the following: anthropology, economics, geography, history, political science and sociology. A detailed description of the requirements is available in the office of the faculty program counselor in the School of Humanities and Social Sciences.

Courses of Instruction

HIST 100
THE STUDY OF HISTORY 3.0
The course is designed to introduce students to the nature of history as a scholarly intellectual pursuit. It is built around student activities dealing with the materials and typical research procedures used by historians and the challenges of criticizing and writing history at the beginner's level.

HIST 103
FOUNDATIONS OF WESTERN CIVILIZATION 3.0
Origins and development of western civilization to about 1350: Egyptian, Judaic, Greek, Roman, Islamic and Medieval European contributions. Meets the General Education Requirement - Social Science, American/European History.

HIST 105
EMERGENCE OF EUROPEAN CIVILIZATION, 1500-1914 3.0
The emergence of Europe as a distinctive world civilization. The development of ideas, institutions and technologies from medieval times to World War I. Meets the General Education Requirement - Social Science, American/European History.

HIST 106
CONTEMPORARY EUROPE, 1914 TO THE PRESENT 3.0
European society in transition since World War I. The role of two world wars in shaping contemporary times. Meets the General Education Requirement - Social Science, American/European History.

HIST 108
INTRODUCTION TO AFRICAN CIVILIZATION 3.0
Pre-Colonial African civilization and its eclipse under slavery and the Colonial onslaught. Principal social, political and cultural systems of the period. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

HIST 109
INTRODUCTION TO ISLAMIC CIVILIZATION 3.0
Examination of various institutions and value systems in Islam which characterize it as a major civilization. Important cultural developments as they are affected by the process of transition. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

HIST 110
INTRODUCTION TO AMERICAN CIVILIZATION 3.0
The mainstreams of development in American civilization. Political, intellectual, social, economic and cultural forces and achievements which have made the United States distinctive. Meets the General Education Requirement - Social Science, American/European History.

HIST 111
CONTEMPORARY AMERICAN ISSUES IN HISTORICAL PERSPECTIVE 3.0
Examines contemporary issues in American society in historical perspective. Topics will vary from semester to semester in the light of changing problems confronting our society. Meets the General Education Requirement - Social Science, American/European History.

HIST 114
EARLY LATIN AMERICAN CIVILIZATION 3.0
The components of Latin American civilization. Considered are the geographical background and developments of the Mayan, Incan, and Aztec civilizations, the Spanish and Portuguese backgrounds and the wars of independence. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

HIST 115
HISTORY OF PUERTO RICO 3.0
The history and culture of Puerto Rico and interaction with Spain, Latin America and the United States. Meets the Minorities Culture Requirement.

HIST 116
MODERN LATIN-AMERICAN CIVILIZATION 3.0
Major themes in Latin American history during the 19th and 20th centuries with emphasis on the struggle for freedom, equality, and economic independence.

HIST 117
HISTORY OF THE UNITED STATES TO 1876 3.0
Issues and problems in the development of the American nation from discovery and exploration to the Civil War and Reconstruction. Meets the General Education Requirement - Social Science, American/European History.

HIST 118
HISTORY OF THE UNITED STATES SINCE 1876 3.0
Issues and problems in the development of the American nation from the Civil War to the present. Meets the General Education Requirement - Social Science, American/European History.

HIST 131
INTRODUCTION TO INDIAN CIVILIZATION 3.0
The early history of India, 3000 B.C. to 1000 A.D. Principal religions, political and literary works, and their insights into Indian social values and institutions. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

HIST 132
INTRODUCTION TO CHINESE CIVILIZATION 3.0
The early history of China, 2000 B.C. to 1300 A.D. Principal social, political and metaphysical-philosophic works, corresponding values and institutions. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

HIST 133
MODERN CHINESE CIVILIZATION 3.0
Modern China 1600 to the present. Changes in values and mutual influence East and West, studied through literary, philosophical, anthropological, historical and artistic works. Meets the Minorities Culture Requirement.

HIST 204
THE SECOND WORLD WAR 3.0
A study of the origins and course of World War II in Europe, Asia and the Pacific.

HIST 205
MINORITIES IN AMERICAN HISTORY 3.0
A study of the historical background of the various ethnic, racial and religious minorities in contemporary American society. Meets the Minorities Culture Requirement.

HIST 212
SOCIAL HISTORY OF THE UNITED STATES 3.0
Social and cultural aspects of American history. Population movements, rural and urban problems, status of women, utopian ventures, mass media, recreation, human rights.

HIST 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
Major trends in agriculture, commerce, finance, manufacturing, transportation and industrial relations from colonial beginnings to the present. Also listed as ECON 213.

HIST 214
DIPLOMATIC HISTORY OF THE UNITED STATES 3.0
Evolution of American foreign policy and diplomacy from the Revolution to the present. Selected basic readings in the field.

HIST 215
WOMEN IN AMERICAN HISTORY 3.0
The changing role and status of women in American society from colonial times to the present. Meets the Minorities Culture Requirement.

HIST 217
HISTORY OF BLACK AMERICANS 3.0
Role of Americans of African descent in the development of the United States. Contributions of black Americans from initial discovery and exploration to mid-20th century. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

HIST 218
POLITICAL HISTORY OF THE UNITED STATES 3.0
The historical development of American political institutions from the early 1700's to the present. Focus upon the evolution of constitutional and legal structures, the party system and pressure groups, the role of bureaucracies and the impact of political leaders.

HIST 219
SPORT IN HISTORY 3.0
This course takes a global approach to the history of sport, but focuses on the role of sport in American history. It examines sport in early world cultures, the development of sport as a mass spectator phenomenon in modern times, and the social significance of sport in the contemporary world.

HIST 221
EUROPE'S CONQUEST OF THE AMERICAS, 1415-1763 3.0
A study of European explorations, discoveries and territorial settlements in the Americas during the 15th to the 18th century. Examination of the expansion and impact of Europe—institutions, ideas, traditions, technologies, and resulting confrontations with and impact on native American peoples.

HIST 222
ECONOMIC HISTORY OF EUROPE 3.0
European economic development from the Middle Ages to the present. Emphasis on the first industrial revolution in Britain; comparing 19th century economic growth in Britain, France, Germany and Russia. Also listed as ECON 222.

HIST 223
COMMUNIST REVOLUTION IN CHINA 3.0
Ideological and historical significance studied against the background of domestic and international events, personalities and ideologies. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

HIST 225
THE POLES, CZECHS, SLOVAKS AND HUNGARIANS SINCE 1815 3.0
This survey examines the history of East Central Europe since the Congress of Vienna. The spread and impact of nationalism, democracy, fascism and communism will be considered.

HIST 231
NEW JERSEY: PAST AND PRESENT 3.0
A survey of New Jersey history emphasizing (1) the state's political, economic and social heritage and evolution, and (2) New Jersey's role in the development of the United States.

HIST 281
GREEK CIVILIZATION 3.0
The political, social, economic, and cultural history of the Greek world from the Bronze Age to the Roman Conquest as seen through literary, documentary, and archaeological sources. Meets the General Education Requirement - Social Science American/European History. Also listed as GNHU 281.

HIST 282
ROMAN CIVILIZATION 3.0
The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary and archaeological sources. Meets the General Education Requirement - Social Science, American/European History. Also listed as GNHU 282.

HIST 309
FEMINIST IDEAS IN WESTERN THOUGHT 3.0
History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecroft, Fuller, Mill, and Freud will be considered against their socio-historic milieu.

HIST 311
EARLY HISTORY OF NEW JERSEY 1702-89 3.0
From royal colony to the establishment of the federal government under the constitution, state and local events during the American revolution.

HIST 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1809. Also listed as EU GS 312.

HIST 313
BIOGRAPHY IN AMERICAN HISTORY 3.0
The significant biographical materials available in the study of American history; the problems and uses of biography.

HIST 315
WAR IN HISTORY 3.0
Examines selected wars in the history of the world in an attempt to learn about causes and consequences of war. Considers attempts to prevent war in the past, and proposed methods for preventing war in the future.

HIST 320
AMERICAN URBAN HISTORY SINCE 1880 3.0
Transformation of the 19th century industrial city into the 20th century metropolis. The emergence of the New York metropolitan region.
Prerequisite: HIST 211 or equivalent background.

HIST 322
MEDIEVAL EUROPEAN CIVILIZATION 450-1350 3.0
Origins, development, and significance of a civilization whose political, social and cultural foundations had a spiritual basis and unity.

HIST 323
HISTORY OF RUSSIA TO 1917 3.0
Factors shaping the Russian people: Byzantium and Greek Orthodox faith. tartar state organization, the Mir, Westernization from Peter to Lenin, intellectual and radical movements.

HIST 324
RUSSIA SINCE 1917 3.0
Political, social, economic and intellectual developments in the Soviet Union; the relationship of ideology and national goals.

HIST 327
HISTORY OF FRANCE SINCE 1789 3.0
Political, social, economic and intellectual developments in France since the Revolution.

HIST 328
CONFLICT IN MODERN IRELAND 3.0
A history of Irish nationalism with emphasis on the period from 1782 to the present.

HIST 329
HISTORY OF ENGLAND TO 1714 3.0
Emphasis on political and constitutional history, the formation of basic institutions of law and government and related economic, social and cultural factors.

HIST 330
CHINESE SOCIAL HISTORY THROUGH LITERATURE 3.0
Masterpieces of the Chinese literary tradition from earliest times to the 20th century. Literary genre in historical perspective and as expression of social and cultural values.

HIST 331
HISTORY OF ENGLAND 1714-1914 3.0
Political, social and economic history from the Hanoverian succession to the 20th century: industrial revolution, changing balance of the Constitution, British Imperialism, the Irish Question.

HIST 333
HISTORY OF BRAZIL 3.0
Traces the historical development from the pre-historical Indian cultures to the 1970's; covers the social, cultural, political, economic and religious aspects of the largest Latin-American nation.

HIST 400
SENIOR SEMINAR IN HISTORY 3.0
Directed research and preparation of seminar reports and written paper on special topics in the main fields of history. Required for senior history majors.
Prerequisite: HIST 100, 21 semester hours in History.

HIST 406
HISTORY OF AMERICAN BUSINESS 3.0
Provides historical background toward understanding the present role business plays in American society. Examines the role of the entrepreneur and business manager in the evolution of American business.

HIST 408
INDEPENDENT STUDY EUROPEAN HISTORY 3.0
To provide opportunity for students, mainly history majors, to do independent work in the field of European history.

HIST 409
INDEPENDENT STUDY NON-WESTERN HISTORY 3.0
To provide opportunity for students, mainly in history or transcultural studies, to do independent work in the field of non-Western history.

HIST 410
INDEPENDENT STUDY IN AMERICAN HISTORY 3.0
To provide an opportunity to do independent work in the field.

HIST 411
INTELLECTUAL HISTORY OF THE UNITED STATES 3.0
Development and contributions of the thought of individuals and groups, dominant and minority, and their effect on the American mind, traditions and practices.

HIST 416
CHURCH AND STATE IN LATIN AMERICA 3.0
The Roman Catholic Church as the major spiritual institution as well as a cultural, moral, political and economic force in Latin America.

HIST 419
AGE OF RENAISSANCE, 1350-1517 3.0
Political, economic, social and broad cultural developments in Italy and Western Europe during 1350-1517.

HIST 420
THE REFORMATION ERA, 1500-1650 3.0
Religious movements of the 16th and 17th centuries; their medieval antecedents; the accompanying political, intellectual and socioeconomic forces.

HIST 422
STUDIES IN ENLIGHTENMENT HISTORY 3.0
Major intellectual developments in 18th century Europe: rise of skepticism, toleration, empiricism, idea of progress. Readings in Hume, Voltaire, Diderot, Rousseau, Kant and antecedent figures.
Prerequisite: HIST 105 or equivalent background.

HIST 425
IDEAS IN EUROPEAN HISTORY: BURKE TO NIETZSCHE 3.0
Conservative, liberal, romantic, utilitarian and early existential streams of thought in 19th century Europe. Readings in Burke, Bentham, Mill, Hegel, Nietzsche and others, with attention to historical background.
Prerequisite: HIST 106 or equivalent background in European history.

HIST 426
THE NAZI THIRD REICH 3.0
Major economic, social, political and intellectual developments in 20th century Germany. Demise of Weimar Republic and ascension of Nazi Third Reich.
Prerequisite: HIST 106 or equivalent background.

HIST 430
REVOLUTIONS IN LATIN AMERICAN HISTORY 3.0
Examines and compares the causes, course and consequences of three major social revolutions in Latin America: Mexico (1910), Bolivia (1952), Cuba (1959).

HIST 431
DEVELOPMENT OF INDIAN CHARACTER AND CULTURE 3.0
The historical conditioning of Indian behavior. Culture change in the perspective of colonialism and modernization; contributions of religion to social and political values and modern literature. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.
Prerequisite: HIST 131.

HIST 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
The historical conditioning of Japanese behavior. Cultural change in the perspective of traditional periodization of Japanese history. Contributions of religion and philosophy in defining modern social values. Also listed under Anthropology as ANTH 432. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

HIST 433
AMERICAN COLONIAL HISTORY 1607-1763 3.0
Developments within the English colonies, interactions between England and the colonists, growth of a distinctive American society.

HIST 434
AMERICAN REVOLUTION AND EARLY REPUBLIC, 1763-1828 3.0
Analysis of events leading to the war for independence; political, economic and foreign problems of the new nation; the growth of nationalism.

HIST 435
THE UNION IN CRISIS 1820-1877 3.0
Significant events and developments of the period: Jacksonian democracy, Westward expansion and sectionalism, the Civil War and Reconstruction.

HIST 436
AMERICA IN THE GILDED AGE 3.0
The forces which contributed to the development of modern, industrialized America; American society and its reaction to changes of the period.

HIST 437
AMERICAN SOCIETY IN THE 20TH CENTURY 3.0
The continuing reactions to the problems of an industrialized America. The New Deal and recent supreme court decisions.

HIST 438
AMERICA IN THE SIXTIES: THE CRISIS OF CONSENSUS LIBERALISM 3.0
Analyzes the crisis of American liberalism as that ideology was beset by the consequences of postwar affluence and the growing radicalism during the Kennedy-Johnson administration; and the backlash that developed into the Nixon "New Majority".

HIST 443
INTERNSHIP IN HISTORY 3.0
Opportunity for the advanced student to acquire practical experience working directly with primary sources of history in state and local depositories of historical materials.
Prerequisites: 21 semester hours prior course work in history and permission of program coordinator.

SOSC 223
SIMULATION GAMES AND GLOBAL PROBLEMS 3.0
An innovative course utilizing both simulation games and books to inquire into the substantive problems of peace and justice, the ways and means of designing future change, and the uses of simulation techniques as a teaching/learning device.

SOSC 401
METHODS OF TEACHING SOCIAL STUDIES 3.0
Presents recent trends in educational method in teaching the social studies. A program is presented containing the correlation of subject matter organization in socialized recitation, the teaching of current events, projects in citizenship, and the use of the project-problem as a method of teaching history and civics.

Home Economics

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Elaine Flint

Home Economics is concerned with the study of individuals and families, their environments, needs, problems and futures. The department offers six specializations which synthesize, interrelate, and integrate knowledge from other disciplines toward understanding and finding solutions to concerns of individuals and families.

A Bachelor of Science degree is offered in Foods and Nutrition and Food Service Management; the Bachelor of Arts degree is offered in Consumer Affairs, Family and Child Studies, Fashion Studies, and Home Economics Education. Students may prepare to teach, work with businesses, agencies, government programs, other institutions and/or pursue graduate study. Courses are open as electives for those majoring in other fields of study.

Montclair State College's Home Economics unit is accredited by the Council for Professional Development of the American Home Economics Association.

Home Economics Major

Required Courses (All Concentrations)

			Semester Hours
HECO	100	Professional Orientation	2
HECO	304	Introduction to Research	3
HECO	400	Senior Seminar	1
HEMG	270	Individual Management: Theories and Strategies	3
HEFM	140	Family in Society	3

Concentration Programs Within the Major

Consumer Affairs

Required Courses

			Semester Hours
HECO	409	Internship in Home Economics	8-12
HEMG	335	Consumers in the Market	3
HEMG	435	Consumer Action	3
HEMG	470	Family Management	3
HEFM	445	The Inner City Family	3

12 semester hours in one of these areas: Consumer Services; or Food, Nutrition, Food Service Management; or Housing, Interior Design, Household Equipment 12

Collateral Courses

MKTG	340	Introduction to Marketing 3
STSP	234	Fundamentals of Public Speaking 3
PHIL	102	Ethic 3
PSYC	101	General Psychology I 3
ECON	101	Principles of Economics: Macro 3
ECON	102	Principles of Economics: Micro 3
		Political Science Course 3

Electives (General)

Select 20 semester hours from the appropriate list to be obtained from the department 20

Family and Child Studies

Required courses for Applied Family/Child Studies and Nursery-Eight Teacher Programs

			Semester Hours
HECO	141	Interpersonal Relations	3
HECO	448	Family Counseling	3
HEMG	231	The Family in the Economic System	3
HEFM	214	Child Development I	3
HEFM	215	Infant Development	3
HEFM	314	Child Development II	3
or			
HEFM	416	Creative Experiences I: Expressive Media	3
HEFM	315	Field Experiences in Family and Child Services	3
HEFM	320	Parenting Skills and Resources	3
or			
HEFM	418	Strategies for Working with Parents	3
HEFM	342	Family Sociology	3
or			
SOCI	204	Sociology of the Family	3
HEFM	445	The Inner City Family	3
HENU	182	Nutrition	3

I. Applied Family/Child Studies Professional Sequence

Required Courses

HECO	205	Women in Contemporary Society	3
HECO	344	Challenge of Aging	3
HECO	409	Internship in Home Economics or its equivalent from a minor	8

Strongly Recommended Courses

HLTH	290	Human Sexuality	3
PHIL	102	Ethics	3

Electives

Select from requirements for a minor or from the list of recommended courses to be obtained from the department 11

II. Nursery–Eight Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog with the following exception: READ 400 Foundations of Reading Instruction substitutes for the course in reading. Refer to Teacher Education Program requirements outlined in this catalog. In addition, the following courses must be taken:

HEFM	319	Language and Literature for Young Children	3
HEFM	417	Creative Experiences II: Cognitive Development	1
HEFM	420	Program Planning in Early Childhood Education	3
PSYC	201	Child Psychology	3

Fashion Studies

Required Courses

			Semester Hours
HECO	409	Internship in Home Economics	8
HEDN	265	Interior Design	3
HETX	122	Clothing and Culture	3
HETX	220	Textile and Apparel Industry	3
HETX	298	Textiles I: Introduction	3
HETX	320	Historical Analysis of Fashion	3
HETX	325	The Marketing of Fashion	3
HEMG	435	Consumer Action	3

Collateral Courses

MGMT	311	Management Process & Organizational Behavior	4
MKTG	340	Introduction to Marketing	3
ARGN	101	Design Foundations of Visual Organization I	3
ARHS	105	Art and Civilization I	3
CHEM	100	Introductory Chemistry	3
PSYC	102	General Psychology I	3
ANTH	100	Cultural Anthropology	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3
Studio Art course			3

General Education

French, Spanish or Italian to fulfill foreign language requirement 6

Electives

Select 16 semester hours from the appropriate list to be obtained from the department 16

Foods and Nutrition

Required Courses for all Programs

			Semester Hours
HENU	150	Principles of Food Preparation	3
HENU	153	Food and People	3
HENU	182	Nutrition	3
HENU	255	Meal Management	3
HENU	282	Community Nutrition	3
HENU	357	Experimental Foods	3
BIOL	254	Applied Microbiology	3
ECON	101	Principles of Economics: Macro	3
or			
ECON	102	Principles of Economics: Micro	3

I. Foods and Nutrition—General

HEED	302	Nutrition Education Techniques	3
HEMG	435	Consumer Action	3
CMPT	108	Computers and Programming	3
ENWR	315	Magazine Journalism	3
CHEM	109	College Chemistry Laboratory I	1
CHEM	111	Elements of Chemistry I	3
CHEM	130	Fundamentals of Organic Chemistry	4

Choose 6 credits from the following 6

HECO	408	Workshop in Home Economics: Sensory Evaluation	3
HENU	382	Advanced Nutrition	3
HENU	456	Research in Foods	3
HENU	482	Nutrition Counseling	3
HEFD	253	Quantity Food Purchasing and Production	3
Electives			33

II. Foods and Nutrition—Dietetics*

HEED	302	Nutrition Education Techniques	3
HENU	382	Advanced Nutrition	3
HENU	488	Diet Therapy	4
HEFD	252	Quantity Food Purchasing and Production Laboratory	2
HEFD	253	Quantity Food Purchasing and Production	3
HEFD	254	Food Service Equipment and Facilities Design	3
HEFD	352	Organization and Management of Food Service Systems	3
BIOL	243	Human Anatomy and Physiology	4
MGMT	311	Management Process and Organizational Behavior	4
CHEM	109	College Chemistry Laboratory I	1
CHEM	130	Fundamentals of Organic Chemistry	4
CHEM	270	Fundamentals of Biochemistry	5

Electives 5

* Careful advisement is recommended so that requirements of the American Dietetics Association might be met.

III. Foods and Nutrition—Food Technology

HECO	408	Workshop in Home Economics: Sensory Evaluation	3
HEMG	435	Consumer Action	3
HEFM	456	Research in Foods	3
HEFD	254	Food Service Equipment Facilities Design	3
CMPT	108	Computers and Programming	3

MATH	115	Precalculus Mathematics	3
MATH	122	Calculus I	4
PHYS	191	General Physics I	4
PHYS	192	General Physics II	4
CHEM	120	General Chemistry I	4
CHEM	121	General Chemistry II	4
CHEM	230	Organic Chemistry I	3
CHEM	231	Organic Chemistry II	3
CHEM	232	Experimental Organic Chemistry I	2

Highly recommended courses for this area of study

HEFD	253	Quantity Food Purchasing and Production	3
MGMT	311	Management Process and Organizational Behavior	4
MKTG	340	Introduction to Marketing	3
MKTG	341	Consumer Behavior	3
ENWR	207	Technical Writing	3
MATH	109	Statistics	3
Electives			14

American Dietetics Association

In addition to taking course requirements listed for the Home Economics major and the Food and Nutrition concentration, a student who wishes to fulfill the minimum requirements for professional training of the American Dietetics Association should contact the department for current requirements.

Food Service Management

Required Courses

			Semester Hours
HECO	409	Internship in Home Economics	8
HENU	150	Principles of Food Preparation	3
HENU	153	Food and People	3
HENU	182	Nutrition	3
HEFD	252	Quantity Food Purchasing and Production Laboratory	2
HEFD	253	Quantity Food Purchasing and Production	3
HEFD	254	Food Service Equipment and Facility Design	3
HEFD	352	Organization and Management of Food Service Systems	3
HEFD	353	Specialized Food Production	3

Collateral Courses

BIOL	242	Human Biology	3
BIOL	254	Applied Microbiology	3
BSLW	261	Legal Environment of Business I	3
ACCT	200	Accounting for Non-Business Majors	3
MGMT	316	Human Resource Management	3
OR			
PSYC	240	Industrial and Organizational Psychology	3
MGMT	311	Management Process & Organizational Behavior	4
MKTG	340	Introduction to Marketing	3
CMPT	108	Computers and Programming	3
CHEM	107	College Chemistry I	2
CHEM	109	College Chemistry Laboratory I	1
CHEM	130	Fundamentals of Organic Chemistry	4
PSYC	101	General Psychology I	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

Electives

Select 9-10 semester hours from the appropriate list to be obtained from the department 9-10

Home Economics Education

Required Courses

			Semester Hours
HEED	201	Introduction to Home Economics Education	3
HECO	141	Interpersonal Relations	3
HEDN	160	Equipment in the Home	3
HEDN	260	Housing and Society	3
HETX	120	Clothing Construction	3
HETX	122	Clothing and Culture	3
HETX	298	Textiles I: Introduction	3
HEMG	435	Consumer Action	3
HEMG	470	Family Management	3
HEFM	214	Child Development I	3
HENU	150	Principles of Food Preparation	3
HENU	182	Nutrition	3
HENU	255	Meal Management	3
Home Economics Elective			3

Collateral Courses

PSYC	101	General Psychology I	3
ECON	101	Principles of Economics: Macro	3
		Anthropology or Sociology	3

Home Economics Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. In addition, the course HEED 309 Teaching of Home Economics must be taken.

Courses of Instruction

HECO 100
PROFESSIONAL ORIENTATION 2.0
Orientation to the philosophy of the profession. Field experiences with home economists in a variety of settings to provide exposure to the breadth of professional opportunities.

HECO 141
INTERPERSONAL RELATIONS 3.0
Revelant and up-to-date information about meaningful human relationships throughout the life cycle. Meets the General Education Requirement - Electives, Personal/Professional Issues.

HECO 205
WOMEN IN CONTEMPORARY SOCIETY 3.0
Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement.

HECO 300
FIELD TRIP EXPERIENCES IN HOME ECONOMICS 1.0
An opportunity to study the policies, problems and contributions of business, industry and community agencies which relate to families as consumers.

HECO 304
INTRODUCTION TO RESEARCH 3.0
Provides awareness of the contributions of research to the advancement of human welfare. Developing skills for intelligent pursuit and consumption of research not for freshmen.

HECO 308
INDEPENDENT STUDY 1.0-3.0
Advanced areas of Home Economics not offered in the regular curriculum. *Prerequisite: Junior or senior standing.*

HECO 344
CHALLENGE Of AGING 3.0
The change over the adult life span as it affects family interaction and resources in various sub-cultures. Implications for social policy and institutions relative to an increasing aging population. Field participation with agencies and elders; minimum 6 hours contact - more encouraged. Meets the General Education Requirement - Contemporary Issues.

HECO 400
SENIOR SEMINAR 1.0
The role of professional home economists in meeting contemporary societal needs; problems of entry into the field. Majors only.
Prerequisite: Senior standing.

HECO 408
WORKSHOP IN HOME ECONOMICS 1.0-3.0
Opportunity to study selected current problems in the field of home economics.

HECO 409
INTERNSHIP IN HOME ECONOMICS 8.0-12.0
Opportunity to work as an intern, with a professional home economist in business, a community agency or an organization.
Prerequisite: Senior standing, admission to program. Application available in Home Economics department.

HECO 448
FAMILY COUNSELING 3.0
Techniques and theories of collecting data and counseling families with such problems as money management, nutrition concerns, parent-child relationships and value conflicts.
Prerequisites: 30 semester hours in home economics, junior or senior standing.

HEDN 160
EQUIPMENT IN THE HOME 3.0
Principles and resources involved in the selection, use and care of equipment in the home.

HEDN 260
HOUSING AND SOCIETY 3.0
This survey course examines housing as a product and a process which affects and is affected by families and households throughout the life cycle. Housing viewed through an interdisciplinary perspective is seen as influenced by household preferences and societal factors. Meets the General Education Requirement - Contemporary Issues.

HEDN 265
INTERIOR DESIGN 3.0
Selection, organization and evaluation of furnishing for the residential environment. Principles and elements of design studied in relation to interior residential space.

HEDN 365
INTERIOR DESIGN II 3.0
The history of furniture, interiors and decorative arts from ancient times through the beginning of the twentieth century are analyzed. Stylistic and technical developments are traced in light of the social and historical forces that affect design.
Prerequisite: HEDN 265.

HEDN 465
INTERIOR DESIGN III 3.0
The development and aesthetics of design in the twentieth century in Europe and America. Emphasis is placed on the work of contemporary American interior designers.
Prerequisite: HEDN 365.

HEED 201
INTRODUCTION TO HOME ECONOMICS EDUCATION 3.0
Exploration of the roles of home economics educators; home economics programs; teaching environments; curriculum design and methodology. Field trips to a variety of programs followed by analysis.

HEED 302
NUTRITION EDUCATION TECHNIQUES 3.0
Procedures and techniques for developing programs and teaching nutrition to a variety of target populations. Individual and group methods emphasize innovation.
Prerequisite: HENU 182.

HEED 309
TEACHING OF HOME ECONOMICS 3.0
Curriculum development. Materials and teaching strategies appropriate to home economics. CURR 410 Intermediate Field Experience in Education must be taken concurrently. To be taken semester prior to student teaching.

HEFD 252
QUANTITY FOOD PURCHASING AND PRODUCTION LABORATORY 2.0
Laboratory experiences to support basic concepts of quantity food purchasing and production. Laboratory assignments off campus in functioning food service facilities. To be taken concurrently with HEFD 253 Quantity Food Purchasing and Production.
Prerequisites: HENU 150, 182.
Corequisite: HEFD 253.

HEFD 253
QUANTITY FOOD PURCHASING AND PRODUCTION 3.0
Determining needs, purchasing, storing, preparing and serving food in large volume.
Prerequisites: HENU 150, 182.
Corequisite: HEFD 252.

HEFD 254
FOOD SERVICE EQUIPMENT AND FACILITIES DESIGN 3.0
Selection of equipment based on needs of the food service system. Purchasing procedures.
Prerequisite: HEFD 253.

HEFD 352
ORGANIZATION AND MANAGEMENT OF FOOD SERVICE SYSTEMS 3.0
Principles of management, organizational structure, policy and decision-making. The menu in management, budgeting and cost control, sanitation and safety, personnel policies and management.
Prerequisites: HEFD 253, MGMT 311.

HEFD 353
SPECIALIZED FOOD PRODUCTION 3.0
Opportunity to study selected problems in food production in various types of food service operation. Menu planning and production for special events; terminology and techniques utilize in specialized areas of food production. Laboratory experience is included.
Prerequisites: HEFD 253, 254, 352.

HEFM 140
FAMILY IN SOCIETY 3.0
Provides basic insights and concepts from the social sciences to study the history and structure of the family as a basic but changing institution in modern America. Meets the General Education Requirement - Social Science, Topic Course.

HEFM 214
CHILD DEVELOPMENT I 3.0
The pre-school child (2-5 years): the major challenges confronting the developing child as he/she masters the task of socialization. Supervised observation and participation with groups of pre-school children for 2 1/2 hours per week, each week of the semester.
Prerequisites: PSYC 101, field work required.

HEFM 215
INFANT DEVELOPMENT 3.0
The infant as a developing individual within the family. Theory and research in the area of human infancy. Physical, cognitive and emotional growth from pre-natal through the first two years of life.

HEFM 248
FAMILY RELATIONS 3.0
The family life cycle. Courtship, adjustment in marriage, pregnancy, child rearing. Later stages of parenthood and old age.

HEFM 314
CHILD DEVELOPMENT II 3.0
The growth and development of the school-aged child (6-18). Examination of peers and family interactions, as well as the institutions of society as they influence the developing child/adolescent. Assigned activities with child/adolescents with 15 hours of field participation required.
Prerequisites: HEFM 214.

HEFM 315
FIELD EXPERIENCES IN FAMILY AND CHILD SERVICES 3.0
Planned supervised experience with selected agencies offering services for families and children. 35 hours of field work required.
Prerequisites: 30 semester hours of family and child studies program.

HEFM 319
LANGUAGE AND LITERATURE FOR YOUNG CHILDREN 3.0
The qualities of children's expression through language, books, stories and poems; criteria for evaluating material for the pre-school program.

HEFM 320
PARENTING SKILLS AND RESOURCES 3.0
Opportunities for the student to develop effective parenting skills and the knowledge about human development needed for the application of these skills. Impact of parenting resources on both parents and non-parents. Local, state and national resources examined. Assigned activities with children. Meets the General Education Requirement - Electives, Personal/ Professional Issues.

HEFM 342
FAMILY SOCIOLOGY 3.0
Familiarizes students with data relating to the family as an institution, its development, dynamics and place in society. The impact of rapid social change on the American family. Not open to freshmen.

HEFM 414
ORGANIZATION AND MANAGEMENT OF CHILD CARE CENTERS 3.0
Basic principles of supervision and administration applied to developing a sound program in a modern pre-school program. The learning process applied to the professional development of staff. Organization and administration of individual classrooms and the total school program; the relationship of the school to community services and agencies.
Prerequisite: HEFM 214, junior/senior standing.

HEFM 416
CREATIVE EXPERIENCES I: EXPRESSIVE MEDIA 3.0
Curriculum experiences designed to nurture young children's self-expression and creativity in areas of art, music, dramatic play, woodworking and block play.
Prerequisites: HEFM 214, junior/senior standing, majors only.

HEFM 417
CREATIVE EXPERIENCES II: COGNITIVE DEVELOPMENT 3.0
Provides an opportunity for students preparing to teach young children to have workshop experiences related to the physical and social world. Appropriate curriculum materials and activities in the areas of science, math and social studies will be discussed and presented.
Prerequisite: HEFM 416, majors only.

HEFM 418
STRATEGIES FOR WORKING WITH PARENTS 3.0
Establishing a positive team approach between the parent and teacher. Parent-teacher interaction. How the teacher interprets parental anxieties, and conducts individual conferences and group meetings.
Prerequisite: HEFM 214.

HEFM 420
PROGRAM PLANNING IN EARLY CHILDHOOD EDUCATION 3.0
Principles of curriculum development for programs for pre-school children. Taken the semester prior to student teaching.
Corequisite: CURR 410 Field Experience in Education.

HEFM 445
THE INNER CITY FAMILY 3.0
Sub-cultures residing in large cities. The impact of urbanization, ethnicity, social and economic institutions. Problems which families encounter. Community contact is part of the course. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: Junior/senior standing.

HEMG 231
THE FAMILY IN THE ECONOMIC SYSTEM 3.0
The family as an economic unit in society. Economic behavior of various sub-cultures, age groups and family patterns. Meets the General Education Requirement - Social Science, Topic Course.

HEMG 270
INDIVIDUAL MANAGEMENT: THEORIES AND STRATEGIES 3.0
Opportunity to investigate management theories and apply them to personal life. Influences on, and blocks to, personal management, problem solving, planning, and expediting. Required of majors. Meets the General Education Requirement - Contemporary Issues.

HEMG 331
MONEY MANAGEMENT 3.0
The role and meaning of money in individual and family living; income as a means of acquiring a style of life; the effective control of income in spending, saving, credit purchases and providing for future needs.

HEMG 335
CONSUMERS IN THE MARKET 3.0
The consumer perspective of the marketplace. Emphasis on developing research skills and understanding laws, regulations and agencies that affect the consumer. Not for freshmen.

HEMG 370
INDIVIDUAL AND FAMILY PROBLEM-SOLVING 3.0
Dealing with daily living through increased competence in decision-making and problem-solving in a variety of life styles. Not open to freshmen.

HEMG 435
CONSUMER ACTION 3.0
The market place as a social, psychological and economic institution serving families. Emphasis on advertising, selling practices, pricing strategies, trends and current issues which affect the quality of goods and services.
Prerequisites: ECON 101 or ECON 102.

HEMG 470
FAMILY MANAGEMENT 3.0
Opportunity to analyze situations in which individuals and families use resources to maintain daily life and solve problems. Roles, goals, decision making, use of human and nonhuman resources and factors influencing household management.
Prerequisite: HEMG 270.

HENU 150
PRINCIPLES OF FOOD PREPARATION 3.0
Principles of basic food science involved in preparation of standard food products. Food selection and purchasing.

HENU 153
FOOD AND PEOPLE 3.0
Discussion of diverse factors which influence food selection in various cultures. World food patterns, nutritional significance of a changing food supply. Meets the General Education Requirement - Contemporary Issues.

HENU 182
NUTRITION 3.0
The nutrients in food, their functions in the human body, and diet requirements for people in various age groups. Meets the General Education Requirement - Natural/Physical Science, Non-Laboratory Science Only.

HENU 255
MEAL MANAGEMENT 3.0
Food preparation, nutrition and management in planning, preparing and serving family meals to utilize the resources available.
Prerequisites: HENU 150, 182.

HENU 282
COMMUNITY NUTRITION 3.0
The application of basic nutritional knowledge to individuals and community agencies. Assessing and planning educational programs to correct nutrition problems. Field studies and group projects.
Prerequisite: HENU 182.

HENU 357
EXPERIMENTAL FOODS 3.0
Scientific principles underlying food preparation. Laboratory experiments illustrate the effect of varying ingredients and preparation procedures on the quality of food products.
Prerequisites: HENU 150, CHEM 130.

HENU 382
ADVANCED NUTRITION 3.0
The physiological and chemical bases for nutrient needs, mechanisms through which nutrients meet the biological needs of humans, evaluation and interpretation of research findings.
Prerequisites: BIOL 243, CHEM 270, HENU 182.

HENU 456
RESEARCH IN FOODS 3.0
Scientific method in the design and execution of experimental food studies and in the interpretation and evaluation of results. Independent laboratory research.
Prerequisites: HENU 150, 357.

HENU 482
NUTRITION COUNSELING 3.0
This course offers practical experience dealing with the principles of marketing, adult learning, helping skills, data analysis, record keeping, and evaluation as related to weight control and nutritional assessment. Twenty hours of clinical experience is required.
Prerequisite: HENU 282.

HENU 488
DIET THERAPY 4.0
The application of basic nutritional principles and diet to the treatment of diseases and conditions other than normal.
Prerequisites: HENU 382.

HENU 489
EXTERNSHIP IN FOOD AND NUTRITION 3.0
A supervised experience in selected quantity food services, agencies, clinics or organizations involved in foods and nutrition problems of the community.
Prerequisites: HENU 382, HEFD 253, instructor's permission.

HETX 120
CLOTHING CONSTRUCTION 3.0
Theory and techniques for achieving well-fitted apparel; basic concepts, competencies and technologies using appropriate fabrics and commercial patterns.

HETX 122 CLOTHING AND CULTURE:
A MULTIDISCIPLINARY STUDY 3.0
Analysis of dress in terms of cultural, social, psychological and economic influences, clothing choices related to individual concerns, including esthetic, physical and ecological factors. Meets the General Education Requirement - Electives, Personal/Professional Issues.

HETX 220
TEXTILE AND APPAREL INDUSTRY 3.0
In-depth study of factors which spur progress, affect supply, demand, and ultimately the consumer. History, economic structure and patterns of production, distribution and marketing of textile and clothing industries.

HETX 298
TEXTILES I: INTRODUCTION 3.0
Intensive study of fibers, yarns, fabric constructions, and finishes related to consumer concerns for use, durability, care and cost. For students with a professional interest in textiles and clothing.

HETX 320
HISTORICAL ANALYSIS OF COSTUME 3.0
The development of clothing; clothing usage in terms of social, economic and aesthetic backgrounds. Not open to freshmen.

HETX 322
FIELD VISITS TO CLOTHING AND TEXTILES FIRMS 1.0
Opportunity to observe systems of manufacture, distribution and marketing of textile merchandise.
Prerequisite: Instructor's permission.

HETX 325
THE MARKETING OF FASHION 3.0
This course is an exploration of the fashion business with an emphasis on the marketing of apparel, accessories and home furnishings. Problems and trends at the wholesale and retail levels will be explored. Not open to freshmen.

HETX 398
TEXTILES II: PRODUCTION AND PERFORMANCE 3.0
Basic information is used in the study of fabric production. Development and implementation of textile standards. Impact of socio-economic forces, trends in merchandising, and consumership are discussed. Field experience included.
Prerequisite: HETX 298 or instructor's permission.

HETX 426
APPAREL DESIGN: FLAT PATTERN 3.0
Flat pattern design in developing original designs for apparel. Basic pattern used to execute designs related to the use of fabric on a human form.
Prerequisite: HETX 120, or instructor's permission.

Legal Studies

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Marilyn R. Tayler

Legal Studies is unified in terms of the broad discipline and also overall ultimate career objective. The Department of Legal Studies provides a cohesive structure which preserves the interdisciplinary nature of the legal field. The thrust of the Department is threefold:

- to unify the Paralegal and Pre-Law Programs into a single resource unit for students interested in the legal field;
- to provide appropriate counseling and information for students;
- to represent Montclair State College's leadership role in undergraduate legal studies in relation to law schools, the organized bar and the general public through activities such as conferences, research and consultation projects.

The Department of Legal Studies affords Montclair State College students the dual possibilities of an applied career in law as a paralegal or preparation for an ultimate career as an attorney. For undergraduates, both the Paralegal and Pre-Law Programs are minors which may be combined with many diverse majors on campus. For post-baccalaureate students, there is a Paralegal Studies Certificate Program.

In the essential process of advisement, Dr. Marilyn Tayler and Dr. Barbara Nagle of the Department of Legal Studies provide academic and career advisement to both Paralegal and Pre-Law students. Dr. Harry Balfe, the College Pre-Law Advisor, is available to provide information to students regarding law school admission. Additionally, advisors representing many departments at the College counsel Pre-Law students regarding the best course of study within any major for students planning a career in law.

PARALEGAL STUDIES PROGRAM (24 semester hours)

The Paralegal Studies Program offers the student a balanced and varied background in the legal fundamentals, appropriate skills, and practical field work experience necessary for work as a legal assistant. The program develops intellectual and analytical skills, educates students for direct employment opportunities in the legal assistant field, and provides supplemental career possibilities in combination with a student's major.

The Montclair State College Paralegal Studies Program is the first and only program at a four-year college in the State of New Jersey to receive American Bar Association approval. A Certificate of Completion is awarded to all students who meet program standards, fulfill the 24 credit hours required in the Program, and complete a Bachelor's Degree. For undergraduate students, this is an academic minor. For Post-Baccalaureate students it is a certificate program.

There are three possible courses of study within the Paralegal Studies Program: Hispanic concentration for bilingual students; Patent, Trademark and Copyright concentration; and Litigation specialization.

Paralegal Studies Minor

			Semester Hours
I.	LSPR	220 Introduction to Paralegalism	3
II.	LSPR	230 Fundamentals of Legal Research (Not open to freshman)	3
III.	LSPR	221 Civil Litigation	3
IV.	**Choice of 4 of the following:**		
	LSPR	301 Domestic Relations Law	3
	LSPR	302 Real Estate Law	3
	LSPR	303 Wills, Trusts, and Probate Law	3
	LSPR	304 Corporations and Partnerships	3
	LSPR	305 Personal Injury Law	3
	LSPR	307 Immigration Law	3
	LSPR	310 Fundamental of Patent, Trademark and Copyright Law	3
	LSPR	322 Advanced Civil Litigation	3
	LSPR	340 Computer Fundamentals for Paralegals	3
	LSPR	350 Criminal Procedure, Laws, Rules and Practice	3

Students may substitute up to 2 courses from the appropriate list obtained from the Department.

Students may substitute one law-related course from the following group:

	BSLW	261 Legal Environment of Business I	3
	LSPR	316 Skills for Bilingual Legal Personnel	3
	POLS	321 Law in Society: Criminal Law	3
V.	LSPR	325 Paralegal Seminar and Internship	3

Students may substitute LSPR 326 Cooperative Education: Paralegal Studies (4 or 8 semester hours).

Total Semester Hours For The Program **24**

Concentrations

Hispanic Concentration (for bilingual students)

Required Course:

LSPR	316	Skills for Bilingual Legal Personnel	3

Patent, Trademark and Copyright Concentration

Required Courses:

LSPR	310	Fundamentals of Patent, Trademark and Copyright Law	3
LSPR	311	Patent, Trademark and Copyright Law: Practice and Procedure	3

Specialization

Litigation Specialization

Required Courses:

LSPR	305	Personal Injury Law	3
LSPR	322	Advanced Civil Litigation	3

Each course of study included a prescribed sequence of Legal Specialty classes and an internship in the area of concentration or specialization.

PRE-LAW STUDIES PROGRAM (21 semester hours)

The Pre-Law Studies Minor at Montclair State College is an interdisciplinary program designed to enhance the preparation of students planning to seek admission to law school by promoting the development of analytical and critical writing, reading, and thinking. The program offers students a balanced and varied background, enriching the student's academic major, in the acquisition of skills essential for success in the field of law.

Pre-Law Studies Minor

Required Course:

LSLW	200	Introduction to Law and Legal Professions	3

Essential Skills: (9 credits)

ENWR	205	Writing: Nonfiction Prose	3
ENWR	204	Advanced Expository Writing	3
GNHU	182	English Vocabulary: Classical Roots	3
LNGN	290	Language of the Law	3
MATH	109	Statistics*	3
MATH	195	Reasoning and Problem Analysis for Pre-Law and Paralegal Students	3
PHIL	106	Logic	3
PHIL	264	Critical Reasoning and Argument	3
PHIL	324	Legal Reasoning (Also listed as LSLW 324)	3
STSP	234	Public Speaking	3
STSP	442	Argumentation and Debate	3

Background Courses:

ACCT	200	Accounting for Non-business Majors	3
OR			
ACCT	201	Fundamentals of Accounting I	3
BSED	101	Contemporary Business	3
OR			
ECON	101	Principles of Economics: Macro	3
HIST	117	History of the United States to 1876	3
OR			
HIST	118	History of the United States since 1876	3
LSLW	398	Pre-Law Seminar and Internship**	3
OR			
LSLW	400	Selected Topics In Law	3
PHIL	206	Philosophical Issues in Law and Justice	3
OR			
PHIL	316	Philosophy of Law	3
POLS	101	Institutions of American Government and Politics	3
OR			
POLS	322	American Constitutional Law: The Federal System	3

Total Semester Hours For The Program **21**

*MATH 270 Statistics for Business may be substituted.
**LSLW 399 Cooperative Education: Pre-Law Studies may be substituted.

Students may also substitute up to 2 courses from the appropriate list obtained from the Department.

Courses of Instruction

LSLW 195
REASONING AND PROBLEM ANALYSIS FOR PRE-LAW AND PARALEGAL STUDENTS 3.0
Mathematical problem analysis, reasoning and proof applicable and transferable to law school study, including analysis of legal decision making. This course is cross-listed with MATH 195.
Prerequisite: Working knowledge of high school algebra and geometry.

LSLW 200
INTRODUCTION TO LAW AND LEGAL PROFESSIONS 3.0
An introduction to the meaning and function of law, the powers of the courts, and the jurisdiction of the courts. An exploration of traditional and evolving areas of law. A survey of the different professions and career options within the legal field. An assessment of the roles and importance of law in the lives of students and the public. Meets the General Education Requirement - Electives, Personal/Professional Issues.

LSLW 324
LEGAL REASONING 3.0
The goal of this course is to provide students in the pre-law minor with the theoretical foundations to develop a model and a method of addressing legal problems. The course will acquaint students with principles of legal reasoning and argument in the Anglo-American common law tradition and a model of legal reasoning and a methodology for resolving legal problems as developed within evolving social and philosophical notions of justice and fairness. Also listed as PHIL 324.
Prerequisites: LSLW 200, PHIL 264.

LSLW 391
WOMEN AND THE LAW 3.0
This course is designed to help students to understand and evaluate the changing patterns of gender-based laws in the United States in terms of the preferences they reflect and the rationales used to justify them. Emphasis will be placed upon issues which impact upon women's rights, Supreme Court cases which impact upon the roles and rights of women, and legislation.

LSLW 398
PRE-LAW SEMINAR AND INTERNSHIP 3.0
This course is designed to provide pre-law students who have acquired basic legal skills through introductory courses with the opportunity to utilize those skills and further explore the field of law by working in a lawyer's office or other similar advocacy situation.
Prerequisites: LSLW 200 and LSPR 230.

LSLW 399
COOPERATIVE EDUCATION: PRE-LAW STUDIES 4.0-8.0
This course is designed to provide pre-law students who have acquired basic legal skills through introductory courses, with the opportunity to utilize those skills and further explore the field of law by working in a lawyer's office or other similar advocacy situation, as well as earn a salary.
Prerequisites: LSLW 200 and LSPR 230.

LSLW 400
SELECTED TOPICS IN LAW 3.0
Exploration of a timely and significant area of law. The specific topic will be announced each time that the course is offered.

LSPA 105
PRACTICAL SPANISH FOR LEGAL PERSONNEL 3.0
Course designed to provide personnel dealing with Hispanics in legally-related situations with a basic knowledge of the Spanish language as it relates to the performance of their jobs in assisting Hispanics whose problems vary from tenancy and divorce to welfare, social security, immigration, and the like. Also listed under Spanish and Italian as SPAN 105.

LSPA 290
LANGUAGE OF THE LAW 3.0
This course introduces the student to the characteristic properties of legal English-both its linguistic structures and its social and psychological functions. The ultimate objective is to show that, depending on how it is used, legal language can obfuscate or clarify, persuade or fail to persuade, hinder or facilitate communication. Also listed under linguistics as LNGN 290.

LSPA 399
SELECTED TOPICS IN LEGAL INTERPRETATION AND TRANSLATION 3.0
Exploration of timely and significant areas in legal interpretation and translation. Topics will be announced each time that the course is given. The course format is language specific, but the language may vary with each offering.
Prerequisite: Fluency in a language combination (e.g., Spanish/English or American sign language/English) will be specified each time the course is given; permission of department.

LSPR 220
INTRODUCTION TO PARALEGALISM 3.0
An introduction to certain basic areas of the law, to the legal process, and to the legal system, particularly as it operates in the state of New Jersey. The roles of the lawyer and the paralegal within the legal system. Familiarization with ethical considerations and specific paralegal skills in the areas of interviewing, investigation, and advocacy.

LSPR 221
CIVIL LITIGATION 3.0
The terminology of civil law. Substantive and procedural principles relating to all stages of a civil law suit from commencement to judgment particularly as applied to New Jersey civil practice rules. Drafting of pleadings, motions, and other documents in a civil law suit. Trial and appellate procedures.
Prerequisite or corequisite: LSPR 220.

LSPR 230
FUNDAMENTALS OF LEGAL RESEARCH 3.0
Fundamental principles and methods of legal research. The use of a law library, case law, statutory law, and other sources. The application of the tools of legal research to case analysis, digesting legal opinions, and writing a law office memorandum. Not open to Freshmen.
Prerequisite: LSPR 220 is recommended.

LSPR 301 DOMESTIC RELATIONS LAW 3.0
Basic concepts and scope of domestic relations law and family law practice. Familiarization with forms and procedures to train the legal assistant in this area. Ante nuptial agreements, formal ties of marriage, separation agreements, divorce.
Prerequisite: LSPR 220, 221, 230.

LSPR 302
REAL ESTATE LAW 3.0
Principles of real estate law and transactions to train the legal assistant in this area of practice. Conveyances of real property from the standpoint of seller and purchase. Landlord-tenant relations.
Prerequisites: LSPR 220, 221.

LSPR 303
WILLS, TRUSTS AND PROBATE LAW 3.0
Basic concepts, practice, and procedure in wills, probate, and trusts. Will drafting, estate planning, probate procedures, and estate administration, forms and questionnaires utilized by paralegals in these areas.
Prerequisites: LSPR 220, 221.

LSPR 304
CORPORATIONS AND PARTNERSHIPS 3.0
Legal characteristics and tax aspects related to sole proprietorship, partnership, limited partnership, and corporation. Formation, operation, and dissolution of the corporate entity. Drafting of legal forms utilized by paralegals in these areas.
Prerequisites: LSPR 220, 221, 230 and either LSPR 306 or BSLW 261.

LSPR 305
PERSONAL INJURY LAW 3.0
Legal concepts and terminology of personal injury law, both substantive and procedural. Drafting of pleadings and other documents utilized by paralegals in personal injury practice, negligence, medical malpractice, products liability.
Prerequisites: LSPR 220, 221, 230.

LSPR 306
CONTRACT LAW FOR PARALEGALS 3.0
This course provides students with the theoretical foundations and practical applications of contract law in the common law tradition as modified by the Uniform Commercial Code. Students will also become acquainted with current developments in computer applications in the drafting of contracts. Paralegal minor.
Prerequisites: LSPR 220, 221.

LSPR 307
IMMIGRATION LAW 3.0
Basic overview of immigration and nationality act, as well as historical and sociological perspective of U.S. Immigration. Practice and procedure of immigration law as pertains to both administrative agency processing and consular processing. Visa applications, naturalization, citizenship, deportation, exclusion, asylum and refugee practice.
Prerequisites: LSPR 220, 221.

LSPR 310
FUNDAMENTALS OF PATENT, TRADEMARK AND COPYRIGHT LAW 3.0
Substantive and procedural legal foundation in these areas. Application and registration procedures. Standards of patentability. Trademark registration. Subject matter of copyrights.

LSPR 311
PATENT, TRADEMARK AND COPYRIGHT LAW: PRACTICE AND PROCEDURE 3.0
Substantive and procedural principles in these areas, including practice and procedure before the U.S. Patent and Trademark Office and the U.S. Copyright Office.
Prerequisite: LSPR 310.

LSPR 316
SKILLS FOR BILINGUAL LEGAL PERSONNEL 3.0
Translating, interpreting and cultural fluency as applied to the legal field and in particular to the role of bilingual paralegals.
Prerequisite: Fluency in Spanish required.

LSPR 322
ADVANCED CIVIL LITIGATION 3.0
This course provides students with the theoretical foundations and practical applications of civil litigation in both the state and federal court systems, at all levels from client intake through judgment. Students will also become acquainted with current developments in computer hardware and software applications in the management of complex multi-party civil litigation.
Prerequisite: LSPR 221.

LSPR 325
PARALEGAL SEMINAR AND INTERNSHIP 3.0
Field work experience of 90 hours in a private sector law office, corporation, bank, or public sector agency. Also includes classroom siminar.
Prerequisites: LSPR 220, 221, 230, departmental approval.
Prerequisites or Corequisites: 4 legal specialty or law-related courses selected from courses approved within the Paralegal Studies Minor or from the approved departmental list.

LSPR 326
COOPERATIVE EDUCATION: PARALEGAL STUDIES 4.0-8.0
Academic study integrated with supervised paid employment situation outside the formal classroom environment. Part-time (20 hours per week) or full-time (40 hours per week).
Prerequisites: LSPR 220, 221, 230, departmental approval.
Prerequisites or corequisites: 4 legal specialty or law-related courses selected from courses approved within the Paralegal Studies Minor or from the approved departmental list.

LSPR 331
ADVANCED LEGAL RESEARCH 3.0
Students refine and perfect principles and methods of legal research, how to use a law library, and to work with statutory, case law and other sources. Students apply to practical legal problems the research techniques learned in Fundamentals of Legal Research.
Prerequisite: LSPR 230.

LSPR 340
COMPUTER FUNDAMENTALS FOR PARALEGALS 3.0
This course provides an introduction to the structure of a computer, the function of programming language, computer application in the legal environment, available legal software and legal applications data bases.
Prerequisites: LSPR 220, 221, 230.

LSPR 341
ADVANCED COMPUTER CONCEPTS FOR PARALEGALS 3.0
The course is designed to explore the application and operation of computer programs designed specifically to assist in the practice of law or the management of a law office and to provide students with a conceptual basis for evaluation, application, and operation of other legal application programs which may become a· ailable to students. The course builds upon the background and knowledge acquired in the prerequisite computer Fundamentals for Paralegals.
Prerequisites: LSPR 220, 230, 340.

LSPR 350
CRIMINAL PROCEDURE, LAWS, RULES AND PRACTICE 3.0
Legal concepts and their application to criminal procedure. Study of procedural laws and rules governing criminal practice and how they impact on substantive criminal law. Will include the role of the paralegal in criminal practice from both the perspective of the prosecution and the defense.
Prerequisite: LSPR 220.

LSPR 399
SELECTED TOPICS IN PARALEGAL STUDIES 3.0
Exploration of a significant area of paralegal studies, including administrative law, alternate dispute resolution, as well as new and evolving legal areas. The specific topic will be announced each time the course is offered.
Prerequisites: LSPR 220, 221, 230.

Linguistics

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Alice F. Freed

Human language permeates nearly every facet of our existence and is one of the most important of human activities. The courses in linguistics reflect this fact and explore the many aspects of language: its structure, its history, its relationship to society and to psychological processes, its role in shaping our attitudes, its use in literature, and many other topics.

The department offers general courses for non-majors and specialized courses for majors, as well as a minor program and a variety of courses for students in other fields. In addition, the department offers courses leading to certification in Teaching English as a Second Language (TESL).

Linguistics majors receive a Bachelor of Arts degree.

Linguistics Major

Required Courses: (21 Semester Hours)

			Semester Hours
LNGN	210	Introduction to General Linguistics	3
LNGN	220	Structure of American English	3
LNGN	230	Language in Society	3
LNGN	245	Language and Culture	3
LNGN	300	Syntax and Semantics I	3
LNGN	301	Syntax and Semantics II	3
LNGN	330	Phonetics and Phonology	3

Electives: (15 Semester Hours)

LNGN	203	Anthropological Linguistics	3
LNGN	255	Women, Men and Language	3
LNGN	260	Dialectology	3
LNGN	270	History of Linguistics	3
LNGN	280	Bilingualism	3
LNGN	284	History of the English Language	3
LNGN	325	Principles of Second Language Learning	3
LNGN	340	Linguistics and Literary Analysis	3
LNGN	370	Comparative and Historical Linguistics	3
LNGN	410	Linguistics and Philosophy	3
LNGN	420	Mathematical Linguistics	3
LNGN	430	Field Methods	3
LNGN	450	Selected Topics in Linguistics	3
LNGN	451	Selected Topics in Linguistics	3
LNGN	478	Independent Study in Linguistics	3
LNGN	480	Linguistics in Education and Society	3
PSYC	250	Psycholinguistics	3
			Total 36

Recommended Courses: A non-Indo-European Language (6-12 Semester Hours)

CHIN	101	Beginning Chinese I	3
CHIN	112	Beginning Chinese II	3
CHIN	121	Intermediate Chinese I	3
CHIN	132	Intermediate Chinese II	3

Linguistics Minor

Required Course

	Semester Hours
LNGN 210 Introduction to General Linguistics	3

Electives

Select 15 semester hours from the appropriate list available from the department.....15

Second Teaching Field in Teaching English as a Second Language (TESL)*

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is currently required for certification in TESL as a second teaching field. Information is available from the Linguistics Department. Specific requirements may be obtained from the department.

Required Courses

			Semester Hours
LNGN	210	Introduction to General Linguistics	3
LNGN	220	Structure of American English	3
LNGN	330	Language in Society	3
LNGN	325	Applied Language	3
LNGN	245	Language and Culture	3
EDFD	445	Puerto Rican Children in Mainland Schools	3
		Bilingual/Bicultural Field Experience	3
LNGN	403	Methods and Materials of TESL	3
LNGN	405	Field Experience in TESL	3

Electives (Departmental)

Select 3 semester hours from the appropriate list to be obtained from the department.....3

Students specializing in TESL must give evidence of native or near-native competency in English, as determined by the Oral Language Proficiency Interview administered by the Linguistics department. Candidates for certification must also take a minimum of 3 semester hours of a foreign language.

Certification is also available for students who already hold a bachelor's degree.

**State guidelines for Teacher Certification in English as a Second Language are being revised. These are the requirements for 1990-1991. Check with the Linguistics Department for the updated requirements for 1991-1992.*

English as a Second Language (ESL)

The Linguistics Department offers a full sequence of courses in English as a Second Language for students with limited English proficiency. Class placement is determined by examination.

ESOL	051	Intensive ESL I	6
ESOL	152	Intensive ESL II	6
ESOL	153	Intensive ESL III	6
ESOL	154	Intensive ESL IV Advanced Composition	6
ESOL	310	ESL - Advanced Oral Skills	3
ESOL	311	ESL - Advanced Listening Comprehension	3

Courses of Instruction

CHIN 101
BEGINNING CHINESE I 3.0
The first semester of an introduction to the Chinese language, focusing mainly on speaking and comprehension, and secondary emphasis on reading and writing. Meets the General Education Requirement - Foreign Language.

CHIN 112
BEGINNING CHINESE II 3.0
The second semester of an introduction to the Chinese language, focusing mainly on speaking and comprehension, with secondary emphasis on reading and writing. Meets the General Education Requirement - Foreign Language.
Prerequisite: CHIN 101.

CHIN 121
INTERMEDIATE CHINESE I 3.0
This is the first semester of a second year course in the Chinese language (Mandarin). The course will continue to build the skills in spoken Chinese developed in beginning Chinese I and II. However, the focus of this course will be reading and writing. The reading and writing components will be gradually increased to at least fifty per cent of the course content. Meets the General Education Requirement - Foreign Language.
Prerequisites: CHIN 101 and 112 or equivalent.

CHIN 132
INTERMEDIATE CHINESE II 3.0
This course will complete the intermediate Chinese sequence. The increased emphasis on reading and writing, begun in Intermediate Chinese I, will continue. Reading and writing skills, along with vocabulary building, will be the focus of the course, although speaking will continue to be important. Meets the General Education Requirement - Foreign Language.
Prerequisite: CHIN 101, 112, and 121 or equivalent.

ESOL 051
INTENSIVE ESL I 6.0
This course is the first in a sequence of four courses for students whose first language is not English. The course aims to develop all four language skills: listening, speaking, reading and writing emphasizing listening comprehension and speaking. The class will meet twice a week for two and a half hours each session. Credits not applicable toward graduation.
Prerequisite: Placement examination.

ESOL 152
INTENSIVE ESL II 6.0
The course is the second in a sequence of four courses for students whose first language is not English. The course aims to continue the development of all four skills: listening, speaking, reading, writing, with special emphasis on reading and vocabulary development. The class will meet twice a week for two and one half hours.
Prerequisite: ESOL 051 or placement examination.

ESOL 153
INTENSIVE ESL III 6.0
This is the third in a sequence of four courses for students whose first language is not English. The course is a continuation of ESL II with increased emphasis on reading and writing. The course meets twice a week for two and a half hours.
Prerequisite: ESOL 152 or placement examination.

ESOL 154
INTENSIVE ESL IV ADVANCED COMPOSITION 6.0
This is the fourth in a sequence of four courses for students whose first language is not English. The course continues working on speaking, listening and reading skills but puts primary emphasis on formal writing. Students will write compositions, essays, etc. focusing on the techniques necessary for academic writing. The class will meet twice a week for two and a half hours.
Prerequisite: ESOL 153 or placement examination.

ESOL 310
ESL - ADVANCED ORAL SKILLS 3.0
The course is designed to improve the oral language skills of non-native English speakers whose background has emphasized the skills of reading and writing. The course is intended to help develop oral proficiency in students whose oral comprehension and ability to make themselves understood is weak. The course will concentrate on the skill of speaking.
Prerequisite: ESOL 153 or equivalent.

ESOL 311
ESL - ADVANCED LISTENING COMPREHENSION 3.0
This course is designed to improve the comprehension of spoken English by the non-native speaker whose writing and speaking is acceptable but who has difficulty following classroom lectures and conversations among English speakers.
Prerequisite: ESOL 153 or equivalent

LNGN 203
ANTHROPOLOGICAL LINGUISTICS 3.0
Different linguistic systems will be analyzed through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems will be emphasized in individual student field experience and in readings and lectures. This course is cross-listed with ANTH 203.

LNGN 210
INTRODUCTION TO GENERAL LINGUISTICS 3.0
The nature and structure of language; the basic techniques for analyzing linguistic structures; phonological, morphological, syntactic and semantic structure of languages,language and dialects; language change; the comparative method in linguistics; human and animal communication; differences between first and second language learning. Meets the General Education Requirement - Social Science, Survey Course.

LNGN 220
STRUCTURE OF AMERICAN ENGLISH 3.0
The phonology, morphology, syntax of American English, geographical and social dialects; traditional, structural and transformational approaches to grammar. Meets the General Education Requirement - Foreign Language.

LNGN 230
LANGUAGE IN SOCIETY 3.0
Correlations between language varieties, their functions in particular settings, and the characteristics of their speakers. Black English. The role of second languages within a society: Pidgin, Creole, Lingua Franca, Diglossia, etc. Meets the General Education Requirement - Social Science, Topic Course.

LNGN 245
LANGUAGE AND CULTURE 3.0
Language in its cultural context. Relationship of linguistic to non-linguistic variables: ethnosemantics, linguistic relativity principle, compotential analysis, glottochronology. Meets the General Education Requirement - Social Science, Topic Course.

LNGN 250
LANGUAGE OF PROPAGANDA 3.0
This course is a multidisciplinary approach to the study of the use of language to manipulate and influence opinions via advertising, innuendo, jargon, emotive language, etc. Meets the General Education Requirement - Contemporary Issues.

LNGN 255
WOMEN, MEN AND LANGUAGE 3.0
A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement.

LNGN 260
DIALECTOLOGY 3.0
Principles of dialect study; application to American dialects. The origin and development of American dialects in historical, literary, regional, social and urban perspectives.

LNGN 270
HISTORY OF LINGUISTICS 3.0
Linguistics from the ancient sanskrit grammarians to the present. Present-day 'schools': structuralism, glossematics, Prague school, London school, tagmemics, stratificational grammar, transformational grammar.

LNGN 280
BILINGUALISM 3.0
Compound and coordinate bilingualism; attitudes, motivation, etc.; functions of languages in multilingual settings; problems of newly-independent, multilingual nations in establishing national and standardized languages; analysis of bilingual speech; problems of educating minority groups in this country whose native language is not English.

LNGN 284
HISTORY OF THE ENGLISH LANGUAGE 3.0
English from its Indo-European origins up to and including the eighteenth-century grammarians. The Germanic strains; old, middle and modern English.

LNGN 290
LANGUAGE OF THE LAW 3.0
The characteristic properties of legal English; its linguistic structures and its social and psychological functions. Practice in analyzing and rewriting legal texts into plain English.

LNGN 300
SYNTAX AND SEMANTICS I 3.0
The first of a two-semester sequence dealing with the most important modern approaches to the description of sentence structure and meaning in language. Emphasis in this first course will be on structural grammar and the early development of transformational-generative grammar. Data will be taken from a number of different languages.
Prerequisites: LNGN 210 and instructor's permission. Required of majors.

LNGN 301
SYNTAX AND SEMANTICS II 3.0
The second course of a two-semester sequence dealing with the most important modern approaches to the description of sentence structure and meaning in language. Emphasis in this course will be on the later development of transformational grammar and its offshoots. Data will be taken from a number of different languages.
Prerequisites: LNGN 300 and instructor's permission. Required of majors.

LNGN 325
PRINCIPLES OF SECOND LANGUAGE LEARNING 3.0
Theories of second language acquisition; error analysis; individual learner differences; the roles of input, interaction, and formal instruction in language acquisition.

LNGN 330
PHONETICS AND PHONOLOGY 3.0
How sounds are produced in various languages, their acoustic properties, classification and description. The sound systems of a variety of languages. Workbook problems eased on many languages.

LNGN 370
COMPARATIVE AND HISTORICAL LINGUISTICS 3.0
Similarities and differences among languages and language families at one point in time and as these develop in time; reconstructing the common ancestor of related languages and determining general laws of linguistic change. Required of majors.

LNGN 384
THE GRAMMARS OF ENGLISH 3.0
A critical overview of traditional, structural, and transformational-generative approaches to the problems of analyzing the grammar of the English language; practical applications for teaching English and for understanding grammatical principles as means of more effective writing and literary analysis. This course is cross-listed with ENGM 384.

LNGN 403
METHODS AND MATERIAL OF TESL 3.0
The theory and practice of ESL instruction covering the major methodologies, planning lessons, testing language skills, selecting and developing materials and related topics.

LNGN 405
FIELD EXPERIENCE IN TEACHING ENGLISH AS A SECOND LANGUAGE 3.0
Opportunity to teach English as a second language will be arranged for each student in the program.

LNGN 430
FIELD METHODS 3.0
Collecting linguistic data from an informant; human factors in field work; qualifications of the informant; elicitation techniques.

LNGN 450
SELECTED TOPICS IN LINGUISTICS 3.0
Study of special problems and topics in linguistics. Topics announced each semester.
Prerequisites: LNGN 210 or equivalent and instructor's permission.

LNGN 451
SELECTED TOPICS IN LINGUISTICS 3.0
Study of special problems and topics in linguistics. Topics announced each semester.
Prerequisites: LNGN 210 or equivalent and instructor's permission.

LNGN 478
INDEPENDENT STUDY 3.0
This course is designed (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department; (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course; or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.
Prerequisites: LNGN 210 and instructor's permission.

LNGN 479
INDEPENDENT STUDY 3.0
This course is designed (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department; (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course; or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.
Prerequisites: LNGN 210 and instructor's permission.

Management

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Joseph Greco

Students whose concentration is in management learn about the actual operation of business organization and how to be a business leader. Managers must develop many kinds of skills. For example, they should have an understanding of human behavior in organizations, the ways in which computers can aid in decision-making, the relationship of business firms to government and society, and how international firms operate.

The concentration in management provides professional education in organization theory and behavior, the management of human resources, operations, and production and information systems. It also supplies a good background in systems design and analysis as well as in decision-making in an environment of risk and uncertainty.

The department offers a Bachelor of Science degree in business administration with a concentration in management.

Business Administration Major

Required Courses

			Semester Hours
ACCT	201	Fundamentals of Accounting I	3
ACCT	202	Fundamentals of Accounting II	3
BSLW	261	Legal Environment of Business I	3
FINQ	270	Statistics for Business	4
FINC	321	Fundamentals of Finance	3
FINQ	372	Management Science	4
FINQ	463	Administrative Research Methodology and Analysis	3
MGMT	311	Management Process and Organization Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Collateral Courses

MATH	113	Mathematics for Business I	3
MATH	114	Mathematics for Business II	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

Two courses from two of the following departments:
Anthropology, Psychology, Sociology 6

Concentration Within the Major

Management

Required Courses

			Semester Hours
MGMT	316	Human Resources Management	3

Management Electives

Select 9 semester hours from the appropriate list to be obtained from the department 9

Business Administration Electives

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

MGMT 273
INTRODUCTION TO COMPUTERS IN BUSINESS 3.0
An introduction ot the use of information systems in business. Topics that will be covered include computer hardware and software, systems analysis, management information systems, data communications and application development. Students will be introduced to business software packages which will include database management, spreadsheeting and business word processing. Also listed as CMPT 272 and BSED 273.

MGMT 311
MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOR 4.0
To provide undergraduate students a review of classical and modern approaches to the managerial process as it relates to the manager's functions of planning, organizing, staffing, leading and controlling. These reviews will be tied to the open-system model and the contingency approach as an overall framework for understanding the management of organizations.
Prerequisites: ANTH 100, PSYC 101, SOCI 100, majors only.

MGMT 316
HUMAN RESOURCE MANAGEMENT 3.0
Motivating managerial and non-managerial employees; effective use of human resources in the organization. The personnel function, techniques of job analysis, description and evaluation, and overall organizational development particularly with minority group members and female employees.
Prerequisite: MGMT 311, junior standing.

MGMT 317
MOTIVATION AND LEADERSHIP 3.0
In-depth analysis of the human element; analytical models to assist in the solution of leadership problems in an organizational context. Techniques of analysis and the psychology of self-esteem. Motivational problems facing first-line, middle, and top level managers in professional and nonprofessional work activities. The development of skills for practical application case studies.
Prerequisite: MGMT 311.

MGMT 327
TRAINING, DEVELOPMENT, AND CAREER PLANNING 3.0
Theory and design of training, development and career planning programs. Assessment of training needs, training and development methods and procedures for evaluation training are considered. Some emphasis is placed on the development of managerial skills through student workshops.
Prerequisite: MGMT 311.

MGMT 335
SMALL BUSINESS MANAGEMENT 3.0
The problems and opportunities of starting and operating a small business. Capital accumulation, adapting technologies to specialized needs, assessing local market opportunities, governmental aids, establishing working relationships with large organizations and problems of growth.
Prerequisites. FINC 321, MGMT 311, MKTG 340.

MGMT 336
INTERNATIONAL BUSINESS MANAGEMENT 3.0
General theory on international trade, the mechanisms of international balance of payments, and the procedures involved in international trade practices. The theory of comparative advantage, tariff system, international trade policy and monetary systems, balance of payment adjustment, flows of capital, development of market abroad, financing of international trade and handling of export shipment.
Prerequisites: ECON 102, MGMT 311.

MGMT 363
BUSINESS AND SOCIETY 3.0
Business as an institution in our pluralistic society; its relationship with other societal elements such as government, academia, labor and the consumer. American business past, present and future; strengths, weaknesses and overall contribution to society; ecology, minority groups and the quantity and quality of economic growth. Meets the General Education Requirement - Contemporary Issues.

MGMT 371
MANAGEMENT INFORMATION SYSTEMS 3.0
Total information systems from the perspective of organizations. Information from the management point of view; its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision-making and policy-setting. (Field work).
Prerequisites: ACCT 202, FINQ 270, MGMT 311, instructor's permission, majors only.

MGMT 392
BUSINESS INTERNSHIP 1.0-3.0
Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses, in a seminar, such topics as job analysis, description, study guides, training techniques and problems.
Prerequisite: Instructor's permission.

MGMT 414
MANAGEMENT THEORIES: BEHAVIORAL APPROACHES 3.0
Advanced analysis of the most recent developments in the behavioral sciences as a basis for practical applications in the management of organizations. Special emphasis on techniques drawn from several behavioral models including approaches such as transactional analysis and behavior modification.
Prerequisite: MGMT 311.

MGMT 433
ENTREPRENEURSHIP AND INNOVATION 3.0
Attitudes and perspectives for effecting meaningful and profitable change. Concepts of creativity, optimum use of resources, and the impact of technological change. Anticipating needs and wants of all groups influenced by the enterprise; examples of successful entrepreneurship, role-playing and situational exercises.
Prerequisite: MGMT 311.

MGMT 439
BUSINESS POLICY 3.0
Establishing and implementing corporate goals. The firm as a collection of internal and external objectives. Information from functional areas analyzed along the lines of departmental activities. Decision-making under conditions of risk and uncertainty. Planning and strategy in a changing environment. Reconciling departmental goals and company objectives through the systems approach. The effects of corporate decisions on public policy. Case studies and simulation games.
Prerequisites: Senior standing; majors only.

MGMT 491
BUSINESS PROBLEMS 3.0
The problems approach to business ownership, finances, location and layouts, purchasing, personnel and managerial controls. Can be used as an independent study course for not more than two times.
Prerequisite: Permission of the department chairman.

MGMT 492
SELECTED TOPICS IN MANAGEMENT 1.0-3.0
The content of this course varies with each offering. Its purpose is to provide for the comprehensive development and study of an advanced topic of current interest not covered indepth in the regular curriculum. Examples of topics covered in the past include: labor relations; women in management; and data base management systems.
Prerequisite: Prior approval of department chairperson.

Marketing

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Ralph DiPietro

Marketing as a discipline involves itself with analyzing consumer and industrial needs in constantly changing environment. Marketing managers then take this information and reflect it in an appropriate marketing strategy that is congruent with those needs.

The marketing concentration provides students with a knowledge of the theoretical and practical aspects of the subject. Courses in advertising, consumer behavior, sales promotion, and marketing research and strategies prepare students for entry level positions and for potential advancement in marketing and sales careers. Additional courses will expand student awareness of international opportunities, and a well chosen sequence of courses sharpens analytical, creative, and decision-making skills.

The department offers a Bachelor of Science degree in business administration with a marketing concentration.

Business Administration Major

Required Courses

			Semester Hours
ACCT	201	Fundamentals of Accounting I	3
ACCT	202	Fundamentals of Accounting II	3
BSLW	261	Legal Environment of Business I	3
FINQ	270	Statistics for Business	4
MGMT	311	Management Process and Organizational Behavior	4
FINC	321	Fundamentals of Finance	3
MKTG	340	Introduction to Marketing	3
FINQ	372	Management Science	4
MGMT	439	Business Policy	3
MKTG	442	Marketing Research	3

Collateral Courses

MATH	113	Mathematics for Business I	3
MATH	114	Mathematics for Business II	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3
Two courses from two of the following departments:			
Anthropology, Psychology, Sociology			6

Concentration Within the Major

Marketing

Required Courses

MKTG 341 Consumer Behavior
OR
MKTG 443 Industrial Marketing 3
MKTG 446 Marketing Strategy and Implementation.....3

Marketing Electives

Select any advanced marketing course from the appropriate list obtained from the department 12

Business Administration Electives

Select 12 semester hours from the appropriate list to be obtained from the department.....12

Courses of Instruction

MKAD 392
BUSINESS INTERNSHIP-MARKETING 1.0-3.0
Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses in a seminar such topics as job analysis, description, study guides, training techniques and problems.
Prerequisite: Permission of department chairperson.

MKAD 492
SELECTED TOPICS IN ADMINISTRATIVE SCIENCES 1.0-3.0
Professional inquiry into the study of a selected issue, problem or trend in accounting, finance, management and organizational behavior, marketing, quantitative analysis, and general business.
Prerequisite: Prior approval of department chairperson.

MKTG 340
INTRODUCTION TO MARKETING 3.0
The role of marketing; significance of marketing decisions to overall performance. Behavorial aspects of marketing, the impact of consumer behavior in purchase decisions, special problems of industrial marketing, the consumer movement and formal and informal societal constraints on marketing practices.

MKTG 341
CONSUMER BEHAVIOR 3.0
Industrial and consumer buying behavior; the user of consumer products. Behavioral science findings, marketing research techniques and consumer attitudes; socio-economic and demographic variables.
Prerequisite: MKTG 340.

MKTG 342
SALES CONCEPTS AND PRACTICES 3.0
An analysis of time complete personal selling function from the perspective of one organization selling to another. Topics dealing with both the actual mechanics of the selling process and the management of the process and its actors are included.
Prerequisite: MKTG 340.

MKTG 343
DIRECT MARKETING
Introduce students to the principles, practices, and environment of direct marketing. Development, implementation, strategies and data base management will be instructed through the use of readings, examples, cases, and a "hands on" approach to computer applications in the field.
Prerequisite: MKTG 340.

MKTG 344
ADVERTISING THEORY AND TECHNIQUES 3.0
An examination of the theoretical basis for advertising with linkage to the behavior of consumers. Planning and managing advertising campaigns, actual techniques used to develop advertising, and the role of advertising agencies are also dealt with.
Prerequisite: MKTG 340.

MKTG 347
EXPORT/IMPORT MARKETING PROCESS 3.0
The course will cover the following topics: export/import policies—national and international environment; government programs and incentives to promote exports; tariff systems; choosing export markets and analyzing exports and imports; developing an export program; setting up an export organization; export/import financing; export/import documentation; export pricing; packaging, shipping, traffic and insurance.

MKTG 349
INTERNATIONAL MARKETING 3.0
The importance of international marketing for the U.S. Environmental conditions and controlling factors. Development of foreign markets and selection of appropriate organizational means. Introduction into the mechanics of import and export. Manufacture abroad. Multinational companies.
Prerequisite: MKTG 340.

MKTG 399
BUSINESS WORK EXPERIENCE II 4.0-8.0
Business Work Experience II integrates classroom study with supervised work experience and intensifies the experience gained through participation in Introduction to Business Work Experience. This course will develop, through practical experience, the student's expertise in the major field of study by providing a bridge from the academic environment to the world of the entering professional.
Prerequisite: BEOS 230.

MKTG 411
ADVANCED TOPICS IN MARKETING RESEARCH 3.0
A continuation of marketing research with emphasis on advanced topics such as industrial marketing research, experimentation, multivariate statistical techniques such as multidimensional scaling, discriminant analysis automatic interaction detection, and conjoint analysis. Also included will be advanced techniques in sales and market forecasting.
Prerequisites: MKTG 310, 311, 410.

MKTG 442
MARKETING RESEARCH 3.0
A broad management perspective on market research methodology. A systems approach, collection and analysis of facts, opinions, forecasts, etc., for determining marketing strategies. Research techniques and designs, tabulation and report presentation.
Prerequisite: MKTG 340, FINQ 270.

MKTG 443
INDUSTRIAL MARKETING 3.0
A study of the various problems faced by organizations who market goods and services consumed by other organizations. A managerial focus based on an understanding of organizational buying activities is stressed.
Prerequisite: MKTG 340.

MKTG 446
MARKETING STRATEGY AND IMPLEMENTATION 3.0
Relationship of marketing to the activity of the firm from theoretical and practical perspectives. The variables of marketing decision-making; sophisticated techniques for problem-solving. Case studies help to develop an analytical posture in marketing planning. To be taken in senior year.
Prerequisite: MKTG 442.

MKTG 464
LEGAL PROBLEMS OF THE MARKETING PROCESS 3.0
The historic and social relationships of law and marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation of anti-competitive business behavior, (3) regulations protecting consumers and (4) regulations protecting the use of intellectual property. Legal problems of international marketing and distribution.
Prerequisites: BSLW 261, MKTG 340.

MKTG 490
MARKETING INTERNSHIP 3.0
An opportunity for students to assist in solving a particular marketing problem for a participating corporation. Examples include general market research, advertising effectiveness research, public relations and new product assessment.

MKTG 492
INDEPENDENT STUDY IN MARKETING 1.0-3.0
An opportunity for a student to study a topic not normally covered in existing course selections or to take a course normally given, but for some reason not available.

MKTG 493
SPECIAL TOPICS IN MARKETING 1.0-3.0
An examination of topics not covered in normal marketing course work. Course to be given on demand with topics varying according to student input. Course will normally be offered during an intersession.

MKTG 499
CURRENT TOPICS IN MARKETING 3.0
Honors seminar, current topics in marketing. Problems and opportunities in marketing management.
Prerequisites: MKTG 340, 442 (or concurrently); instructor's permission.

Mathematics and Computer Science

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: Kenneth C. Wolff

Mathematics and computer science are essential areas of knowledge in the modern technological world. In order to equip students with proper skills, the department offers a major and a minor program in mathematics and a major and a minor program in computer science. In addition the department offers a concentration in applied mathematics. Both major programs lead to a Bachelor of Science degree. With the proper choice of elective courses, a student may prepare for graduate study or for work in a variety of fields such as computer science, statistics, actuarial science and management science. There are honors programs in mathematics and computer science for qualified students.

It is possible to pursue a dual major program, mathematics and computer science. This can be arranged with the advice of the chairperson. A student who is interested in advanced placement or who has questions about qualifications for placement in calculus should contact the chairperson for the proper information.

Mathematics Major

Required Courses

MATH 122 Calculus I 4
MATH 221 Calculus II 4
MATH 222 Calculus III 4
MATH 335 Elements of Linear Algebra 4
MATH 340 Probability 3

Collateral Courses

CMPT 183 Foundations of Computer Science I 3
PHYS 191, 192 General Physics I, II 8

Electives

Select 18 semester hours from the appropriate list to be obtained from the department 18

Mathematics Minor

Students may earn a minor in the field of mathematics by completing an approved 19 semester hour program in mathematics which includes MATH 122, 221, 222, 335 and one other approved 300 or 400 math major elective course. At least 9 semester hours must be taken at Montclair State College.

Applied Mathematics Concentration

See the department for specific details about this program.

Teacher Certification

Students desiring teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. The specific mathematics courses needed for certification should be obtained from the department.

Second Teaching Field in Mathematics

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Those students majoring in another field who wish to teach mathematics as a second field must take an approved 32 semester hour program in mathematics, including one course in computer science, as well as their major field requirements. Specific requirements may be obtained from the department.

Computer Science Major

Required Courses

CMPT 183 Foundations of Computer Science I 3
CMPT 184 Foundations of Computer Science II 3
CMPT 280 Assembly Language and Machine Organization I 3
CMPT 281 Assembly Language and Machine Organization II 3
CMPT 285 Discrete Math Structures 3
CMPT 287 Data Structures 3

Collateral Courses

MATH 122 Calculus I 4
MATH 221 Calculus II 4
MATH 335 Elements of Linear Algebra 4
MATH 340 Probability 3
and
One of these five sequences
1. PHYS 191, 192 General Physics I, II ..... 4 ea.
2. CHEM 120, 121 General Chemistry I, II ..... 4ea.
3. **Select two courses**
   BIOL 121 Plant Kingdom 4
   BIOL 130 Invertebrate Zoology 4
   BIOL 131 Vertebrate Zoology 4
   BIOL 140 Biology of the Cell 4
   BIOL 212 Genetics, Individual and Society 3
4. ACCT 201, 202 Fundamentals of Accounting I, II ..... 3 ea.
   MGMT 311 Management Process and Organizational Behavior 4
5. ECON 101, 102 Principles of Economics: Macro, Micro ..... 3 ea.
   MGMT 311 Management Process and Organizational Behavior ..... 4 ea.

Note: *The department recommends that students consider taking a second and possibly third sequence in collateral courses, as well as advanced writing skills—technical and scientific. Independent study in advanced areas is available. See the department chairperson for information.*

Electives

Select 15 semester hours from the appropriate list to be obtained from the department 15

Computer Science Minor

Students may earn a minor in computer science by satisfactorily completing an 18 semester hour program which includes CMPT, 183, 184, and 261. At least 9 semester hours must be taken at Montclair State College. At least 6 semester hours must be taken above the 280 level.

Computer Science Courses of Instruction

CMPT 107
COMPUTERS AND SOCIETY 2.0
The impact of the digital computer on modern society. The effect of information processing in the social and political spheres and the relation of computer information processing to human thought. Not for math/science majors. Meets the General Education Requirement - Mathematics, Computer Science.

CMPT 108
COMPUTERS AND PROGRAMMING 3.0
Develop programming competence in a language such as BASIC or Pascal and an introduction to the use of a word processing package. Problems will be primarily of a non-mathematical nature. Discussion of the impact of the computer revolution on society. Not for mathematics or computer science majors. Meets the General Education Requirement - Mathematics, Computer Science.

CMPT 109
INTRODUCTION TO COMPUTER APPLICATIONS 3.0
An introduction to the use of word processing spread sheet and data base packages plus a discussion of the impact of computers on society. Not for mathematics major elective credit or computer science major elective credit. Meets the General Education Requirement - Mathematics, Computer Science.

CMPT 183
FOUNDATIONS OF COMPUTER SCIENCE I 3.0
Basic theory of digital computers. Syntax and semantics of a programming language. Algorithms: logic, design, testing and documentation. Meets the General Education Requirement - Mathematics, Computer Science.
Prerequisite: Math 114 or 115.

CMPT 184
FOUNDATIONS OF COMPUTER SCIENCE II 3.0
Continuation of CMPT 183. Algorithm development involving user functions; subroutines, recursions, structures file manipulation.
Prerequisite: CMPT 183.

CMPT 261
BUSINESS DATA PROCESSING 3.0
Applications in accounts receivable, payroll and inventory; language COBOL. Card, tape, and disc files. Not for major elective credit.
Prerequisite: CMPT 183.

CMPT 273
INTRODUCTION TO COMPUTERS IN BUSINESS 3.0
An introduction to the use of information systems in business. Topics that will be covered include computer hardware and software, systems analysis, management information systems, data communications and application development. Students will be introduced to business software packages which will include database management, spreadsheeting and business word processing. Not for math/science majors or students who have taken BSED 273 or MGMT 273.

CMPT 280
ASSEMBLY LANGUAGE AND MACHINE ORGANIZATION I 3.0
Computer structures, the conventional machine level, introduction to assembler language.
Prerequisite: CMPT 184.
Pre or corequisite: Either MATH 221 or MATH 113 and 114.

CMPT 281
ASSEMBLY LANGUAGE AND MACHINE ORGANIZATION II 3.0
Microprogramming level of a computer, the operating system level, assembler topics including subroutines, input/output macros, dumps and macrowriting.
Prerequisite: CMPT 280.
Pre or corequisite: CMPT 285.

CMPT 285
DISCRETE MATHEMATICAL STRUCTURES 3.0
The structures include sets, graphs, digraphs, trees, networks, lattices, matrices, semigroups and groups. Many practical business and scientific problems can be posed and solved by the use of these structures.
Prerequisites: CMPT 183.

CMPT 287
DATA STRUCTURES 3.0
Data structures including linear lists, strings, trees chains, paging, data base design, storage systems, and structures.
Prerequisites: CMPT 280, 285.

CMPT 363
INTRODUCTION TO NUMERICAL COMPUTING 3.0
Fundamentals of numerical computation, with emphasis on basic algorithms and their efficient implementation: appropriate treatment of theoretical bases. Topics include floating point arithmetic, roundoff error and propagation, numerical solution of nonlinear equations, interpolation and approximation, and numerical integration. The FORTRAN language will be taught and used in programming assignments.
Prerequisite: CMPT 183
Pre or corequisite: MATH 221.

CMPT 381
FILE PROCESSING 3.0
Advanced techniques in data processing including modular programming techniques, debugging techniques, table handling, subscripting and indexing; variable length records and tables; declarations and linkages; report generation; tape and disc file processing; searching, sorting, updating and retrieving from files; sequential, direct-access, ISAM and VSAM file organization.
Prerequisite: CMPT: 183.
Pre or corequisite: MATH 221 or MATH 113 and 114.

CMPT 382
SYSTEM ANALYSIS AND DESIGN 3.0
A major project includes forms design, sequential files, files, merge, sort, and editing programs.
Prerequisites: CMPT 183.
Pre or corequisiste: Either MATH 221 or MATH 113 and 114.

CMPT 384
SYSTEMS SOFTWARE 3.0
Design and implementation of assemblers, linkage editors and loaders, libraries, macro processors, and text editors; their relationship to an operating system.
Prerequisite: CMPT 280.

CMPT 385
MICROCOMPUTERS 3.0
Introduction to chip technology, microprocessors, microcomputers, architecture, instruction sets and programming of microcomputers.
Prerequisite: CMPT 280.

CMPT 386
COMPUTER CIRCUITS AND INTERFACES 3.0
Basic digital and analog computing circuits and interface circuits, computer-telecommunication interfaces.
Prerequisite: CMPT 385.

CMPT 387
PRINCIPLES OF DATA COMMUNICATIONS 3.0
Fundamentals of data communication topics. Analog digital, broadband-baseband, TDM-FDM, AM-FM techniques. Error codes and protocols.
Prerequisite: CMPT 281.

CMPT 462
LOCAL AREA NETWORKS (LAN'S) 3.0
Overview, topology, taxonomy, transmission, technology media and control protocols of microcomputer LAN'S.
Prerequisite: CMPT 387.

CMPT 481
OPERATING SYSTEMS 3.0
System architecture; DOS, OS systems; multi-programming; virtual storage.
Prerequisite: CMPT 287.

CMPT 483
DATA BASE SYSTEMS 3.0
A comprehensive collection of data base organizations and design tools: file organizations and evaluations, database structures, schemata and implementations. Database security, operations and management.
Prerequisites: CMPT 287 and 381.

CMPT 484
FUNDAMENTALS OF PROGRAMMING LANGUAGES 3.0
Syntax and semantics of programming languages. Principles of compilers and compiler constructions, including object code generation.
Prerequisite: CMPT 287.

CMPT 485
COMPILER CONSTRUCTION 3.0
Introduction to the concepts and techniques used in the description of programming languages and in the construction of compilers.
Prerequisites: CMPT 287.

CMPT 490
HONORS SEMINAR IN COMPUTER SCIENCE 3.0
Topics not usually covered within standard computer science courses. A written and an oral report are required.
Prerequisites: CMPT 287, MATH 335 and permission of instructor.

CMPT 495
TOPICS IN COMPUTER SCIENCE
FOR UNDERGRADUATES 1.0-3.0
Study of specialized topics in computer science.
Prerequisites: CMPT 287, MATH 335 and permission of instructor.

CMPT 497
UNDERGRADUATE RESEARCH IN
COMPUTER SCIENCE I 1.0-3.0
Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses CMPT 497, 498, MATH 497, 498.
Prerequisites: MATH 222, CMPT 281, instructor's permission.

CMPT 498
UNDERGRADUATE RESEARCH IN
COMPUTER SCIENCE II 1.0-3.0
Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses CMPT 497, 498, MATH 497, 498.
Prerequisites: MATH 222, CMPT 281, instructor's permission.

CMPT 499
COOPERATIVE EDUCATION IN COMPUTER SCIENCE 3.0-8.0
The study of theoretical ideas of computer science combined with their practical applications in a real life environment. The co-op experience is a semester working off campus under the guidance of a company supervisor, and a faculty supervisor. Only 3 of the 8 credits may be used to fulfill the major requirement.
Prerequisites: Approval of faculty coordinator and co-op office.

Mathematics
Courses of Instruction

MATH 050
BASIC SKILLS MATH I:
COMPUTATION AND ELEMENTARY ALGEBRA 3.0
Fundamental operations on real numbers. Introduction to algebra including linear equations and the development of algebraic manipulative skills. Estimation. Problem solving. Use of hand-held calculators. Credits not usable toward graduation.

MATH 051
BASIC SKILLS MATH II: ALGEBRA 3.0
Basic elementary algebra course, includes fundamental algebraic processes, linear and quadratic equations, graphing and applications. Credits not usable toward graduation.

MATH 060
BASIC SKILLS MATHEMATICS LABORATORY -
COMPUTATION 3.0
Review of the fundamental arithmetic operations of real numbers. Whole numbers, fractions, decimals, percents, ratios, word problems and estimation are covered. Topics from elementary algebra may also be included. Credits not usable toward graduation. Small group tutoring in mathematics laboratory.

MATH 061
BASIC SKILLS MATHEMATICS LABORATORY - ALGEBRA 3.0
Review of elementary algebra, including fundamental algebraic processes, linear and quadratic equations, graphing, word problems and applications. Credit not usable toward graduation. Small group tutoring in mathematics laboratory.

MATH 103
THE DEVELOPMENT OF MATHEMATICS 3.0
The growth and development of mathematics from ancient to modern times; contributions of the great mathematicians. Not for math-science majors. Meets the General Education Requirement - Mathematics.

MATH 109
STATISTICS 3.0
Introduction to the use and misuse of statistics. Topics include: analysis and presentation of data, variability and uncertainty in data, techniques of statistical inference and decision-making. Not for mathematics majors. Meets the General Education Requirement - Mathematics.
Prerequisite: MATH 050 or satisfactory performance on NJCBSPT.

MATH 110
INTERMEDIATE ALGEBRA 3.0
Topics include sets, relations, functions, development of number systems and algebraic operations. Students who received high school credit for intermediate algebra may not receive degree credit for MATH 110. Not for math/science majors.
Prerequisite: MATH 051 or satisfactory performance on NJCBSPT.

MATH 113
MATHEMATICS FOR BUSINESS I:LINEAR ALGEBRA 3.0
Matrices, linear programming, probability, statistics.
Prerequisites: MATH 110 or equivalent course or satisfactory performance on NJCBSPT and three years of high school mathematics.

MATH 114
MATHEMATICS FOR BUSINESS II: CALCULUS 3.0
The general aim of this course is to introduce the students to the basic skills of differentiation, integration, maxima-minima problems and several of the other applications of calculus, including modeling, especially models in business and economics.
Prerequisite: MATH 113.

MATH 115
PRECALCULUS MATHEMATICS 3.0
Binomial theorem, relations and functions, exponential and logarithmic functions, right triangle trigonometry, circular functions.
Prerequisite: MATH 110 or satisfactory performance on NJCBSPT and 3 yrs. high school math or equivalent in lieu of MATH 110.

MATH 116
CALCULUS A 4.0
Differentiation and integration of functions, including trigonometric functions. Applications to biology and geoscience. Not for math, chemistry or physics majors. Meets the General Education Requirement - Mathematics.
Prerequisite: MATH 115.

MATH 117
MATHEMATICS AND COMPUTER SCIENCE FOR THE LIFE
SCIENCES I 4.0
Descriptive statistics; counting techniques; permutations; combinations; sets; probability and probability distributions; tree diagrams; introduction to the BASIC language; simulation; role of computers in society. Applications include genetics, ecology, bio-chemistry, and population growth.
Prerequisite: MATH 051 or satisfactory performance on NJCBSPT

MATH 118
MATHEMATICS AND COMPUTER SCIENCE FOR THE LIFE SCIENCES II 3.0
Mathematical models; hypothesis testing; genetics models; diversity in populations; randomness; contingency tables; regression analysis; tests of biological models. Methods of course applied to real biological data throughout with micro-computers used as a tool.
Prerequisite: MATH 117.

MATH 120
CALCULUS I: PROBLEM SOLVING AND COMPUTING WORKSHOP 1.0
This is a supplementary problem solving section for Calculus I students, utilizing computer technology. Topics will include functions, limits, derivatives, anti-derivatives, the definite integral, and others from Calculus I. Free elective credit only.
Corequisite: MATH 122 or permission of the instructor.

MATH 122
CALCULUS I 4.0
Limits, continuity; derivative and differentiation; applications of the derivative, maxima, minima, and extreme considerations; antiderivatives; Riemann integral. Meets the General Education Requirement - Mathematics.
Prerequisites: MATH 115.

MATH 220
CALCULUS II: PROBLEM SOLVING AND COMPUTING WORKSHOP 1.0
This is a supplementary problem solving section for Calculus II students, utilizing computer technology. Topics will include applications of the definite integral, methods of integration, L'Hopital's Rule, sequences, series, and others from Calculus II. Free elective credit only.
Corequisite: MATH 221 or permission of the instructor.

MATH 221
CALCULUS II 4.0
Riemann integral applications, transcendental functions, techniques of integration, improper integrals, L'Hospital's rule, infinite series. Meets the General Education Requirement - Mathematics.
Prerequisite: MATH 122.

MATH 222
CALCULUS III 4.0
Vector algebra; partial differentiation, and extreme considerations; polar, cylindrical, and spherical coordinates, multiple integration; introduction to line integrals.
Prerequisite: MATH 221.

MATH 242
BIOSTATISTICS 3.0
Applications of statistical methods to toxicology. Experimental design, descriptive statistics, random sampling, estimation, inference, hypothesis testing: one and two sample test; anova, quality control, regression and bioassay. Microcomputer and statistical packages. Not for math or computer science majors.
Prerequisite: MATH 122.

MATH 270
STATISTICS FOR BUSINESS 4.0
The comprehension and the application of modern statistical methods. Topics covered include: probability theory, descriptive statistics, interval estimation, sampling theory, parametric and non-parametric tests of significance, analysis of variance, correlation and regression analysis and time series analysis. Not for math/science majors, or students who have taken FINQ 270.
Prerequisite: MATH 114.

MATH 335
ELEMENTS OF LINEAR ALGEBRA 4.0
Vectors, vector spaces in 2, 3, and n-dimensions, systems of linear equations, matrices, determinants, linear transformations, and applications.
Prerequisite: MATH 221 or equivalent.

MATH 340
PROBABILITY 3.0
Chance and variability, elements of combinatorics, Bayes' theorem, random variables, binomial, poisson and normal distributions, applications to statistics.
Prerequisite: MATH 221 or equivalent.

MATH 350
COLLEGE GEOMETRY 3.0
Study of Euclidean and other geometries from an axiomatic point of view.
Prerequisite: MATH 221.

MATH 398
VECTOR CALCULUS 3.0
Topics include the algebra of the differential and integral, gradients, divergence and curl of a vector field, and integral theorems together with applications drawn from the physical sciences.
Prerequisite: MATH 222.

MATH 420
DIFFERENTIAL EQUATIONS 3.0
Linear differential equations, exact and total differential equations, simultaneous equations, numerical approximations, series solutions.
Prerequisites: MATH 222, 335.

MATH 423
INTRODUCTION TO COMPLEX VARIABLES 3.0
This course is a study of the arithmetic and algebra of complex numbers, and an introduction to the differentiation and integration of complex functions. Topics include; rectangular and polar form of complex numbers, algebra of complex numbers, differentiation, Cauchy-Riemann equations, and contour integrals.
Prerequisite: MATH 222.

MATH 425
ADVANCED CALCULUS I 3.0
Properties of the real number system, limits, continuous functions, intermediate value theorem, derivative, Mean value theorem, Reimann integral.
Prerequisite: MATH 222 or equivalent.

MATH 426
ADVANCED CALCULUS II 3.0
Functions of several variables, partial derivatives, Green's theorem, Stoke's theorem, divergence theorem, implicit function theorem, inverse function theorem, infinite series, uniform convergence.
Prerequisite: MATH 425.

MATH 431
FOUNDATIONS OF MODERN ALGEBRA 3.0
Fundamental concepts of algebra including groups, rings, integral domains and fields, with important examples.
Prerequisite: MATH 335.

MATH 433
THEORY OF NUMBERS 3.0
Properties of integers, congruences, quadratic reciprocity law, primitive roots, diophantine equations, continued fractions, algebraic numbers, lattice points and partitions.
Prerequisite: MATH 221.

MATH 436
ELEMENTS OF LOGIC 3.0
Deduction, propositional functions, quantifiers, consistency, decision problems and Goedel's theorem.
Prerequisite: MATH 221.

MATH 440
STATISTICAL METHODS 3.0
Applications of statistical methods: estimation, hypothesis testing, inference, enumeration data, correlation, regression, analysis of variance, non-parametric methods and elementary experimental design.
Prerequisite: MATH 340.

MATH 441
STATISTICAL COMPUTING 3.0
This course is designed: (1) to acquaint students with the use of the computer in solving statistical problems, and (2) to develop intermediate level statistical methodology. Several statistical computing packages and the student's own programs will be utilized.
Prerequisites: CMPT 183, MATH 440.

MATH 443
INTRODUCTION TO MATHEMATICAL STATISTICS 3.0
Develops statistical methods from probability theory. Topics discrete and continuous probability distributions, estimation, inference and hypothesis testing.
Prerequisite: MATH 440.

MATH 463
INTRODUCTION TO NUMERICAL ANALYSIS 3.0
Finite differences, approximation theory, linear and non-linear equations, error analysis.
Prerequisites: CMPT 363, MATH 222, 335.

MATH 464
OPERATIONS RESEARCH I 3.0
Linear programming, transportation problem, assignment problem, duality, sensitivity analysis, network flows, dynamic programming, nonlinear programming, integer programming.
Prerequisite: MATH 335.

MATH 465
OPERATIONS RESEARCH II 3.0
Game theory, queuing models, inventory models, Markov processes, reliability theory and applications.
Prerequisites: MATH 340, 464.

MATH 469
MATHEMATICAL MODELING 3.0
The art of constructing mathematical models for "real world" problems, solving the model, and testing the accuracy of the model. Problems will be selected from business, science, computer science, and the social sciences.
Prerequisites: MATH 335 and 340 and either MATH 440 or 464.

MATH 470
TEACHING OF MATHEMATICS 4.0
Selection, organization, and presentation of secondary mathematics, classroom activities, lesson planning, techniques of motivation, evaluation, multisensory aids, principles of learning, and applications of the microcomputer to classroom teaching.
Prerequisites: Admission to Teacher Education Program.

MATH 471
SELECTED TOPICS IN MODERN MATHEMATICS 3.0
Professionalized view of junior and senior high school mathematics topics: functions, real and complex numbers, analytic geometry, absolute value and inequalities, sets and logic, flow charting, linear programming.
Prerequisites: Admission to Teacher Education Program.

MATH 475
HISTORY OF MATHEMATICS 3.0
Histories of geometry, number theory, algebra, calculus and infinite processes.
Prerequisites: MATH 221.

MATH 490
HONORS SEMINAR IN MATHEMATICS 3.0
This course will concentrate on subject matter not usually covered within standard mathematics courses. A written and oral report are required.
Prerequisites: MATH 222, 335, permission of Director of Honors Program.

MATH 495
TOPICS IN MATHEMATICS FOR UNDERGRADUATES 1.0-3.0
Study of advanced topics in undergraduate mathematics.
Prerequisites: MATH 222 and instructor's permission.

MATH 497
UNDERGRADUATE RESEARCH IN MATHEMATICS I 1.0-3.0
Individual research in a mathematical area agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses CMPT 497, 498, MATH 497, 498.
Prerequisites: MATH 335, instructor's permission

MATH 498
UNDERGRADUATE RESEARCH IN MATHEMATICS II 1.0-3.0
Individual research in a mathematical area agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses CMPT 497, 498, MATH 497, 498.
Prerequisites: MATH 335, instructor's permission.

Music

SCHOOL OF FINE AND PERFORMING ARTS
Chairperson: Donald M. Mintz

The Department of Music stresses performance skills, breadth of musical understanding and work in the liberal arts. The department is accredited by the National Association of Schools of Music and is approved by the National Association for Music Therapy. Two degrees are offered, the Bachelor of Music and the Bachelor of Arts.

Concentrations available within the Bachelor of Music program are Performance, and Theory/Composition. A Bachelor of Arts major is available in Music Therapy, and a concentration is available in Music Education.

Entrance Requirements

General

Those who wish to major in music must have an interview and an audition on a primary instrument or voice. Prospective music majors should be able to show musicality, primary and secondary performing skills and knowledge of elementary music theory. It is important to have studied music seriously throughout high school. Participation in choral and/or instrumental groups and piano study are highly recommended for all applicants.

Applied Music

Secondary Instruments

- All non-keyboard majors must study secondary piano or pass qualifying examinations in piano.
- Placement in any other secondary instruments is by audition.

Primary Instruments

Piano

- A work of J.S. Bach.
- A movement from a sonata by Beethoven, Haydn, or Mozart.
- A third work of comparable difficulty of the candidate's choice. This work must come from the traditional keyboard repertoire: no original compositions, no transcriptions, no jazz works.
- Two of the above selections should be from memory.
- Sightreading will be required.

Performance Concentration Requirements:

- J.S. Bach: any prelude and fugue from the Well-Tempered Clavier, or any three movements of a suite.
- A complete sonata by Beethoven, Haydn, or Mozart.
- One large scale (approximately 10 minutes) work from the 19th or 20th century (Ex.: Chopin Ballade, group of Chopin/Brahms works representing lyrical and virtuoso style).
- *All music must be played from memory.*
- Sightreading.

Organ

- Two compositions for piano: Ex.: Bach: an invention (two or three parts), Beethoven, Chopin, Debussy et al., a work of student's choice from standard keyboard literature.
- A baroque organ piece, adagio, by any composer.
- A contemporary selection of the student's choice.
- Sightreading.

Performance Concentration Requirements:

- A major work by J.S. Bach.
- A major work from the romantic literature (10-15 minutes).
- A major work from the contemporary literature (10-15 minutes).
- Sightreading.

Harpsichord

- Sightreading.
- Four pieces (about 20 minutes of music): at least one piece played from memory: one slow movement, one fast movement.

Performance Concentration Requirements:

- A major baroque work.
- A major contemporary work (10 minutes).
- Another representative work of student's choice (10 minutes).
- *All music must be played by memory.*
- Sightreading.

Voice

- Three memorized songs chosen from the solo voice literature. One may be from the American musical theatre literature; these three songs must include: one song in a foreign language, one song in English, one additional song, selected at the discretion of candidate (this song may be from a musical comedy).
- Sightreading.

Performance Concentration Requirements:

- One 16th-18th century classic song or aria (Bach, Handel, Scarlatti, etc.).
- One 19th century German or French Art song.
- One 20th century American or English song.
- One additional song, selected by candidate.
- *All of above selections from memory.*
- Sightreading.

Violin

- All major and minor scales, two or three octaves.
- Two contrasting works from the standard violin repertoire (Ex .: concerti or sonatas of Bach, Bruch, Handel, Mozart, Lalo, Mendelssohn, Nardini; solo works of Dancla, DeBeriot, Kreisler, or Wieniawski); memorization of at least one work is preferable.
- One etude from Kayser, Kreutzer, Wohlfahrt, Mazas.
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales, two or three octaves.
- Concerto from standard violin repertoire: first movement with cadenza, memorized (Ex.: Bruch, Lalo, Mendelssohn, Mozart, Saint-Saëns).
- Two contrasting movements from a sonata or suite (preferably Bach), memorization preferable.
- Etude, (Dont Op. 37, Fiorillo, or Kreutzer).
- Sightreading.

Viola

- All majors and minor scales, two or three octaves.
- Two contrasting works (Ex.: Weber: *Andante and Rondo Ongerese;* Hummel: *Fantasie;* Bloch: *Suite Hebraique;* Jacob: *Air and Dance;* Piston: *Interlude;* Telemann: *Concerto in G*).
- A standard etude (from Bruni, Fuchs, Kayser, Kreutzer, Kreuz or Mazas).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales, two or three octaves.
- Two contrasting movements from a solo Bach Suite, Sonata, or Partita.
- A major work from the repertoire (Ex.: Schubert: *Arpeggione Sonata;* Schumann: *Märchenbilder,* Brahms Sonata; Parts 1, 2, or 3 from Vaughan Williams, *Suite*; Weber: *Andante and Rondo*).
- Etude (Ex.: Bruni, Campagnoli, Dont Op. 37, Fiorillo, Fuchs, or Rode).
- Sightreading.

Cello

- All major and minor scales, two or three octaves.
- Two or three works in contrasting styles (15 minutes of music).
- One technical etude.
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales, two or three octaves.
- One sonata or suite.
- One concerto, any period (preferably first movement).
- One technical etude.
- Sightreading.

Double Bass

- All major and minor scales, two octaves.
- One etude from Simandl *30 Studies* or similar.
- Two movements from a sonata such as any Marcello, Vivaldi or similar work.
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales, two octaves.
- One complete sonata or suite.
- One technical etude.
- One other composition of candidate's choice.
- Sightreading.

Guitar

- Technique demonstration: Scales (Ex.: Segovia scales); Arpeggios (Ex.: Abloniz, Pujol, etc.); Ligados (Ex.: Abloniz, Shearer, ac.).
- Three pieces from the concert repertoire in contrasting style and periods (Ex.: Bach, Carcassi, Guiliani, Sor, Tarrega, Villa-Lobos).
- Sightreading.

Performance Concentration Requirements:

- Technique demonstration (see above).
- Four pieces from the concert repertoire in contrasting style, and contrasting periods, at least two from memory (20-30 minutes of music).
- Sightreading.

Harp

- An etude of student's choice (Pizzoli, Rolchsa, Salzedo).
- Two pieces from the concert repertoire in contrasting style (Ex.: Naderman, Krumpholtz: Sonatas; Grandjany: *Two French Folksongs;* Pratt: *Little Fountain*).
- Sightreading.

Performance Concentration Requirements:

- An etude of student's choice (Pizzoli, Rolchsa, Salzedo).
- Three pieces from the concert repertoire in contrasting style, 20 minutes of music, from memory.
- Sightreading.

Flute

- Chromatic and all major scales, full range of instrument.
- Two works, contrasting style, at least 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Oboe

- Chromatic and all major scales, full range of instrument.
- Two prepared solo pieces in contrasting styles, 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Clarinet

- Chromatic and all major scales, full range of instrument.
- Two prepared solo pieces in contrasting styles, 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Bassoon

- Chromatic and all major scales. full range of instrument.
- Two works, contrasting style, at least 10 minutes of music (one may be etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Saxophone

- Chromatic and all major scales, full range of instrument.
- Two works, contrasting style, at least 10 minutes of music (one may be etude).
- Sightreading.

Performance Concentration Requirements:

- Chromatic and all major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Trumpet/Cornet

- All major scales, two octaves where possible.
- Two contrasting works from standard solo repertoire, at least 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Trombone

- All major scales, two octaves where possible.
- Two contrasting works from standard solo repertoire, at least 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

French Horn

- All major scales, one octave.
- Two contrasting works from standard solo repertoire, at least 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Tuba/Euphonium/Baritone

- All major scales.
- Two contrasting works from standard solo repertoire, at least 10 minutes of music (one may be an etude).
- Sightreading.

Performance Concentration Requirements:

- All major and minor scales.
- One complete major work: a concerto, sonata, or suite.
- A contrasting selection of candidate's choice (may be an etude).
- Sightreading.

Percussion

- Timpani: Tuning, execution of single-stroke roll.
- Snare drum: Selected technical rudiments (Closed rolls, flams, ruffs, and rhythms).
- Mallet instruments: all major and minor scales, I, IV, V arpeggios, a solo piece of the student's choice.

Performance Concentration Requirements:

- Two prepared solo pieces from the standard repertoire, at least 10 minutes of music, on instrument of candidate's choice.

Final Admission to Program

Theory/Composition

Final admission in junior year; in addition to full audition requirements, candidates must submit a portfolio of compositions and/or analytical sketches before completion of sophomore year.

Music Therapy

Final admission in junior year; in addition to full audition requirements, all credentials (including reports of clinical experience) will be evaluated at the end of sophomore year.

Performance

Provisional acceptance is determined by an Applied Music jury at the end of the freshmen year unless a postponement to the middle of the sophomore year is requested by the major teacher. Full admission is delayed until completion of a sophomore recital and demonstration of a solid grasp of the technical aspects of the performing medium and genuine musicality and sensitivity.

Music Education

Final admission is granted only after an interview and review of credentials toward the end of the sophomore year.

Comprehensive Examination/ Assessment

At the end of the sophomore year, all students must demonstrate comprehensive musicianship in the performing primary, functional keyboard skills, theoretical and practical skills, secondary vocal skills and other materials germane to the student's concentration. Continuation as a music major is dependent upon adequate performance in these areas.

Applied Music Requirements for Graduation

All music students must study with members of the College faculty. There is an applied music fee which must be paid for private instruction in addition to tuition.

Students concentrating in performance will present a recital before the end of the sophomore year and another in the senior year. Students concentrating in music education will present a recital in the senior year.

Students are expected to accompany at a level of their ability as designated by their teachers and to participate actively in the musical life of the College and community.

All students, with the exception of first-semester freshmen, are expected to perform during a noon recital program at least once each semester of primary study.

Secondary instruction beyond the minimum requirements is available when schedules and other considerations allow.

Student Recital/Seminar Requirements for Graduation

Each week the department of Music sponsors mid-day performances by students and lecture/recitals by faculty and guests. Every music major must register for MUGN 029, *Student Recital/Seminar;* on a pass-fail basis, for eight semesters or every semester of attendance at Montclair State College.

Ensemble Requirements for Graduation

The ensemble policy is based on the principle that all students must perform in ensemble(s) every semester of their attendance at Montclair State College in order to assure the broadest possible experience in important ensemble repertoire and to assure that these ensembles have the needed instrumentation for successful performance. Although minimum requirements vary with the concentration, this principle is the overriding one. In most cases, students will be expected to perform in their primary ensemble during each semester of attendance.

Students may be assigned by the department chairperson to an ensemble in accordance with the needs of the department, regardless of the satisfaction by the student of his minimum requirements.

Where admission to a chamber ensemble is by audition and a student fails to gain admission, additional performance in a large ensemble may, with the chairperson's consent, be substituted. Chamber ensembles must perform once a semester, either on student recital or for a jury.

Any changes in the ensemble policy will be posted in the Music department.

Music Education: majors in voice, keyboards or guitar

6 semesters of choir
2 semesters of laboratory band
2 semesters of laboratory orchestra
2 semesters of chamber ensemble

Music Education: majors in stringed instruments

6 semesters of orchestra
4 semesters of choir
2 semesters of chamber ensemble

Music Education: majors in brass, woodwinds, percussion

6 semesters of band
4 semesters of choir
2 semesters of chamber ensemble

Performance: majors in voice

8 semesters of choir
4 semesters of chamber ensemble, including Opera Workshop
4 elective semesters

Performance: majors in guitar

8 semesters of chamber ensemble
4 semesters of choir
4 elective semesters

Performance: majors in stringed instruments

8 semesters of orchestra
4 semesters of chamber ensemble
4 elective semesters

Performance: majors in brass, woodwinds, percussion

8 semesters of band
2 semesters of choir
3 semesters of chamber ensemble
3 elective semesters

Performance: majors in keyboard instruments

8 semesters of choir
5 semesters of chamber ensemble
3 elective semesters

Theory/Composition: majors in voice, guitar

4 semesters of choir
8 semesters of chamber ensemble
4 elective semesters

Theory/Composition: majors in stringed instruments

8 semesters of orchestra
4 semesters of chamber ensemble
4 elective semesters

Music Therapy:

6 semesters using primary instrument
2 semesters using secondary instrument

For the purposes of the above requirements, "chamber ensemble" includes Collegium Musicum, and all solo/duet/trio/etc., repertoire which does not duplicate materials studied for solo recital or jury performance.

Performance Dress Code

Since the department of Music has the training of future professional musicians as one of its major objectives, the music student is expected to dress as a professional whenever appearing before the public.

Mid-Day Recitals

Men: Dark suit, white shirt with collar, simple necktie, shoes and socks matching the suit. No informal attire is allowed.

Women: Simple dress or skirt and blouse; hose and dress shoes; simple costume jewelry is permitted but nothing that would be gaudy or distracting or that would call attention to itself.

Solo Recitals

Men: Same as for ensemble wear (see below) or simple tuxedo with appropriate accessories.

Women: Formal gowns, jewelry, hose and shoes appropriate to restraint in dress and avoidance of distraction.

Accompanists: Same as for ensemble wear (see below) or matching the attire of the soloist.

Ensembles

Men: Black or dark blue suit, solid color white collar shirt, with black, solid color four-in-hand tie; black shoes; black, over-the-calf hose.

Women: Black floor-length, solid color skirt, with either solid white long-sleeved blouse; hose, black shoes. Black pants suit with white blouse is also acceptable.

Instrumental Rental

A fee of $20 (subject to change) per semester is charged students who rent college-owned instruments. Summer rental is considered as a separate semester for this purpose.

Degree Requirements

All Majors

	Semester Hours
MUGN 029 Student Recital/Seminar, 8 semesters	0
MUHS 307/308 Music History I, II	6
MUCP 101, 102, 201, 202 Theory I, II, III, IV	12
MUCP 103, 104, 203, 204 Aural Skills I-IV	4
Secondary Piano (non-keyboard majors)	0-4
Ensembles (see above)	4-8

Music Education Concentration
(in addition to requirements for all majors)

Applied Music 18

Primary Instrument (seven semesters)	14
Secondary Instrument (four semesters)	4
Senior Recital	0

Music Theory 6

MUCP 303, 304 Theory V-Counterpoint, Theory VI-Orchestration	6

Additional Music Requirements 20-22
(Vocal/Instrumental Majors)

MUED 105, 205, 206, 306 Instrumental Methods (1 semester hour each)	4
MUED 200 Introduction to Music Education	2
MUED 334, 335 Choral Techniques	4
MUED 132 Marching Band Techniques	2
MUED 320 Teaching Music in the Elementary Grades K-6	3
MUED 420 The Teaching of Music in Secondary Schools	3
MUED 201, 202 Practicum in Music Education I, II	2
MUCP 310, 311 Keyboard Harmony I, II (Keyboard Majors)	2

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. In addition, students must satisfactorily complete the courses MUED 320 Teaching Music in the Elementary School and MUED 420 The Teaching of Music in Secondary Schools.

Concentration in Performance: Voice
(in addition to requirements for all majors)

Applied Music 36

Primary/Major Instrument	28
MUPR 040 Master Class in Performance	4
MSSN 101, 102, 103, 104 Secondary Piano I-IV	4
Sophomore, Junior and Senior Recitals	0

Additional Music Requirements 8

MUPR 340, 342/3, 344/5, 346/7 Italian, French, German and English Repertory and Diction

Required Collateral and General Education Courses 18

French, Italian and German languages (2 semesters each) 18

Concentration in Performance: Keyboard
(in addition to requirements for all majors)

Applied Music 32

Primary/Major Instrument	28
MUPR 040 Master Class in Performance	4
Sophomore, Junior and Senior Recitals	0

Music Theory 8

MUCP 303, 304 Theory V-Counterpoint, Theory VI-Orchestration	6
MUCP 310, 311 Keyboard Harmony I, II	2

Additional Music Requirements 12

MUPR 201, 202 Piano Literature I, II	4
MUPR 204 Piano Accompanying	2
MUPR 335 or 429 Elementary or Choral Conducting	2
MUPR 439, 440 Piano Pedagogy I, II	4

Concentration in Performance: Instrumental
(in addition to requirements for all majors)

Applied Music 40

Primary/Major Instrument	28
MUPR 040 Master Class in Performance	4
MSSN 101, 102, 103, 104 Secondary Piano I-IV	4
MUPR 276, 277 Instrumental Literature I, II	4
Sophomore, Junior and Senior Recital	0

Music Theory 6

MUCP 303, 304 Theory V-Counterpoint Theory VI-Orchestration	6

Additional Music Requirements 6

MUPR 439 Pedagogy I	2
MUPR 335 or 429 Elementary or Choral Conducting	2
Elective	2

Theory/Composition Concentration
(in addition to requirements for all majors)

Applied Music 20

Primary Instrument	8
Secondary Instrument	4
Instrumental Instruction	8

Music Theory and Composition 28

MUCP 303, 304 Theory V-Counterpoint
Theory VI-Orchestration 6
MUCP 310, 311 Keyboard Harmony I, II 2
MUCP 412 Electronic Music Composition 3
MUCP 341, 342, 443, 444 Private Study in Composition I-IV 8
MUCP 401 Musical Composition 2
Electives 6
Note: If piano is the student's secondary instrument, a music elective may be taken instead of Keyboard Harmony I, II; if piano is the primary instrument, Secondary Piano I-IV is not required, but Piano Accompanying and a 2-semester hour music elective must be taken.

Additional Music Requirements 5

MUHS 407 Music History III 3
MUPR 335 or 429 Elementary or Choral Conducting 2

Music Therapy Major
(in addition to requirements for all majors)

Applied Music 18

Primary Instrument I-IV 8
Secondary Instrument I-IV 4
Ensembles 4
MSSN 121, 122 Secondary Guitar I, II 2
MUGN 029 Student Recital (8 semesters) 0

Music Theory and Music History 24

MUCP 101, 102 Theory I-II 6
MUCP 103, 104 Aural Skills I-II 2
MUCP 201, 202 Theory III-IV 6
MUCP 203, 204 Aural Skills III-IV 2
MUCP 401 Musical Composition 2
MUHS 307, 308 Music History I, II 6

Other Required Music Courses 9

MUED 105 String Instruments I 1
MUED 205 Brass Instruments 1
MUED 206 Woodwind Instruments 1
MUED 306 Percussion Instruments 1
MUED 334 Choral Techniques I 2
OR
MUPR 335 Elementary Conducting 2
MUGN 150 Influence of Afro-American Culture
on Music 3
OR
MUGN 160 Introduction to Music in World Cultures 3
OR
MUGN 209 Introduction to Jazz 3

Additional Music Therapy Requirements 10

MUTH 105 Piano Improvisation for the
Music Therapist 1
MUTH 106 Piano Accompanying Techniques for the
Music Therapist 1
MUTH 260 Methods and Materials in Music Therapy 2
MUTH 262, 263, 361, 362, 363, 364 Music Therapy
Practicum I, II, III, IV, V, VI 6

Professional Sequence 24

MUTH 100 Introduction to Music Therapy 2
MUTH 261 Therapy and Observation Skills for Music
Therapy 2
MUTH 400 Music Therapy Training Group 1.5
MUTH 402 Guided Imagery and Music (GIM) 1.5
MUTH 461 Music Therapy with Children 3
MUTH 462 Music Therapy with Adults 3
MUTH 463, 464 Psychological Foundations of
Music, I-II 4
MUTH 465 Internship in Music Therapy 1
PSYC 201 Child Psychology 3
PSYC 365 Abnormal Psychology 3

Required Collateral and General Education Courses

ARTH 250 Introduction to Art Therapy 3
BIOL 110 Biology of Human Life 4
MATH 109 Statistics 3
PSYC 101 General Psychology I 3
PSYC 235 Psychology of Exceptional Children
and Youth 3
SOCI 204 Sociology of the Family 3

Courses of Instruction

MUCP 101
THEORY I 3.0
Study of harmony, counterpoint and musical analysis of small forms. Must be taken with MUCP 103. Meets four hours weekly.
Prerequisites: Majors only or instructor's permission.
Corequisite: MUCP 103.

MUCP 102
THEORY II 3.0
Continuation of MUCP 101. Meets four hours weekly. Must be taken with MUCP 104.
Prerequisites: MUCP 101, Majors only or instructor's permission.

MUCP 103
AURAL SKILLS I 1.0
Sight reading and dictation in major and minor modes, using diatonic chord progressions. Basic solfeggio. Must be taken with MUCP 101.
Prerequisites: Majors only; instructor's permission.

MUCP 104
AURAL SKILLS II 1.0
Continuation of MUCP 103; must be taken with MUCP 102.
Prerequisites: MUCP 103; majors only; instructor's permission.

MUCP 150
FUNDAMENTALS OF MUSIC FOR THE NON-MAJOR 3.0
Introduction to music notation: reading of clefs, key signatures and their relationship to various modes; rhythm and meter: basic harmonic structures (intervals, triads, and seventh chords.) Sight singing and dictation stressed. Meets the General Education Requirement - Electives, Creative Expression.

MUCP 201
THEORY III 3.0
Chromatic harmony; intermediate contrapuntal techniques; analysis of the larger instrumental forms. Meets 4 hrs. weekly.
Prerequisites: majors only, MUCP 102 or instructor's permission.
Corequisite: MUCP 203.

MUCP 202
THEORY IV 3.0
Continuation of MUCP 201. Meets four hours weekly. Must be taken with MUCP 204.
Prerequisites: MUCP 201, music majors only or instructor's permission.

MUCP 203
AURAL SKILLS III 1.0
Chromatic and non-tonal sight reading and dictation. "Fixed do" Solfeggio. To be taken with MUCP 201.
Prerequisites: MUCP 104, majors only, instructor's permission.

MUCP 204
AURAL SKILLS IV 1.0
Continuation of MUCP 203. Must be taken with MUCP 202.
Prerequisites: MUCP 203, majors only, instructor's permission.

MUCP 301
PROSEMINAR IN MUSIC THEORY 3.0
Coordinating seminar in analytical and aural skills and harmonic, contrapuntal and compositional procedures found in western art music focusing on selected topics relevant to undergraduate study.
Prerequisites: MUCP 202 or equivalent.

MUCP 303
THEORY V-COUNTERPOINT 3.0
Study of part writing, species and free contrapuntal practices and techniques. Contrapuntal and layer analysis.
Prerequisites: MUCP 202 or instructor's permission.

MUCP 304
THEORY VI-ORCHESTRATION 3.0
Stud of compositional and arranging techniques appropriate to writing for individual instruments and voices and for ensembles of various size and character.
Prerequisites: MUCP 202, majors only.

MUCP 310
KEYBOARD HARMONY I 1.0
Skills pianists will need as professional performers, therapists, and educators. Harmonization, transposition, improvisation, realization of figured bass, reduction of open scores, and sightreading.
Prerequisites: Status as a keyboard major.

MUCP 311
KEYBOARD HARMONY II 1.0
Continuation of MUCP 310.
Prerequisites: MUCP 310, Majors only.

MUCP 340
STRUCTURAL ANALYSIS 2.0
Formal organization of selected compositions.

MUCP 341
PRIVATE STUDY IN COMPOSITION I 2.0
Restricted to majors in theory/composition.
Prerequisites: MUCP 202.

MUCP 342
PRIVATE STUDY IN COMPOSITION II 2.0
Restricted to majors in theory/composition.
Prerequisites: MUCP 341, majors only.

MUCP 401
MUSICAL COMPOSITION 2.0
Practical exploration of the various trends in the 20th century composition.
Prerequisites: MUCP 202.

MUCP 405
SELECTED TOPICS IN THEORETICAL STUDIES 1.0
Research and discussion of selected topics in theoretical studies focusing on stylistic and analytical problems to be offered as short term courses. May be repeated for credit.
Prerequisites: MUCP 304.

MUCP 412
ELECTRONIC MUSIC COMPOSITION 3.0
Exploration of electronic music techniques; practical experience in both concrete and synthesizer music.
Prerequisites: MUCP 202.

MUCP 415
THEORY PEDAGOGY 2.0
A survey of pedagogical approaches to music theory.
Prerequisites: MUCP 202.

MUCP 443
PRIVATE STUDY IN COMPOSITION III 2.0
Restricted to majors in Theory/Composition. Special fee.

MUCP 444
PRIVATE STUDY IN COMPOSITION IV 2.0
Restricted to majors in Theory/Composition.
Prerequisites: MUCP 443.

MUCP 460
MANUSCRIPT PREPARATION 2.0
Study of methods of manuscript preparation, copying techniques and practical problems involved in preparing commercial scores for recording, film and background playing.
Prerequisites: Undergraduate theory, knowledge of notation.

MUCP 499
INDEPENDENT STUDY IN MUSIC THEORY/COMPOSITION 1.0-4.0
Project and/or study area planned with sponsoring faculty member.
Prerequisites: MUCP 202.

MUED 105
STRING INSTRUMENTS I 1.0
Elementary playing skills, violin being the basic instrument for all who lack string experience; materials and methods for beginning string classes. Music majors only.

MUED 106
STRING INSTRUMENTS II 1.0
Continuation of MUED 105.
Prerequisites: MUED 105, music majors only.

MUED 132
MARCHING BAND TECHNIQUES 2.0
Methods, organization and planning; drill design, playing, rehearsal techniques. Music majors only.

MUED 200
INTRODUCTION TO MUSIC EDUCATION 2.0
Methodologies, techniques and materials of music education philosophical and practical foundations and applications of learning theories.
Prerequisites: Sophomore music major status.

MUED 201
PRACTICUM IN MUSIC EDUCATION I 1.0
Supervised observation and participation in public school music classes and activities.
Prerequisites: For music majors; departmental permission.

MUED 202
PRACTICUM IN MUSIC EDUCATION II 1.0
Development of teaching skills by observation of public school music instruction and by serving as a teacher's aide.
Prerequisites: Music majors; MUED 201; advisor's permission.

MUED 205
BRASS INSTRUMENTS 1.0
Elementary skills on trumpet, horn, trombone and other brasses; materials and procedures for teaching these instruments in beginning classes. Music majors only.

MUED 206
WOODWIND INSTRUMENTS 1.0
Skills on clarinet, flute, oboe and other woodwinds; materials and methods for teaching these instruments, organizing woodwind classes. Music majors only.

MUED 303
CREATIVE MOVEMENT AND DANCE EXPERIENCES FOR CHILDREN 2.0
Investigating the principles of movement in relationship to the principles of music as a format for designing dance and movement experiences which enhance the music learning process. A focus on strategies appropriate for the elementary music classroom. Active participation.

MUED 306
PERCUSSION INSTRUMENTS 1.0
Elementary skills on snare drum, bass drum, timpani, cymbals, bells, etc.; materials and methods for teaching these instruments in the classroom. Music majors only.
Prerequisites: MUCP 202.

MUED 320
TEACHING MUSIC IN THE ELEMENTARY GRADES K-6 3.0
Processes of music teaching which enhance problem solving and critical thinking on the part of the student. Principles of designing strategies which encourage the development of music skills, creative musical thinking, and positive attitudes in both the general and instrumental classroom setting. Sequential curriculum. Discussion of current methodologies.
Prerequisites: MUCP 202, instructor's permission.

MUED 334
CHORAL TECHNIQUES I 2.0
Tone production, phrasing, enunciation, interpretation, testing and classification of voices, balancing parts, rehearsal routines, accompanying and conducting.
Prerequisites: MUCP 202.

MUED 335
CHORAL TECHNIQUES II - CONDUCTING 2.0
Rehearsal and performance techniques involved in such matters as attack, release, interpretation, balance, historical style, blend.
Prerequisites: MUED 334 or equivalent.

MUED 336
SCHOOL ORCHESTRAS AND BANDS 2.0
Organization; selections, purchase and care of instruments; evaluation of materials; techniques of instruction; substitution of parts, rehearsal routine; marching band; repertory suitable for high school orchestras and bands.
Prerequisites: MUED 205, 206.

MUED 405
ORCHESTRA CONDUCTING AND SCORE READING 2.0
Ear training appropriate to conducting, baton technique, score reading, interpretation.
Prerequisites: MUPR 335 or equivalent.

MUED 420
THE TEACHING OF MUSIC IN SECONDARY SCHOOLS 3.0
Philosophy, aims, content and procedures of music teaching in the junior and senior high school. Emphasis upon the teaching of the general music class and the incorporation of new methods. Lesson plans and units of work for use in the classroom. Includes observation and participation.
Prerequisites: MUED 320.

MUED 499
INDEPENDENT STUDY IN MUSIC EDUCATION 1.0-4.0
Project and/or study area planned with sponsoring faculty member.
Prerequisites: Instructor's permission.

MUGN 029
STUDENT RECITAL 0.0
All music majors must register for this number each semester in order to free their schedules for recital commitments.

MUGN 100
INTRODUCTION TO MUSIC 3.0
Expansion of musical awareness through live performance and directed listening. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

MUGN 150
INFLUENCE OF AFRO-AMERICAN CULTURE ON MUSIC 3.0
Ways in which the Afro-American culture has affected the development of American folk and art music. Meets the Minorities Culture Requirement.

MUGN 160
INTRODUCTION TO MUSIC IN WORLD CULTURES 3.0
The cultural and artistic forces which shape the musics of the nonwestern world and the various folk and art musics resulting from those forces. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

MUGN 209
INTRODUCTION TO JAZZ 3.0
Jazz as an American phenomenon. Musical materials as manipulated by jazz artists, the impact on American popular music, dance and theater, early jazz players and developments. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation. Meets the Minorities Culture Requirement.

MUGN 236
THE AMERICAN MUSICAL 3.0
Introduction to the varieties of style in music for the purpose of extending dramatic action, characterization and atmosphere in musicals, operettas and musical comedies. Representative works from 1927 to present. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

MUGN 309
THE ART OF JAZZ 3.0
Development of jazz in America and abroad, sociological implications in American society and the impact of jazz upon contemporary composition. Meets the Minorities Culture Requirement.

MUGN 499
INDEPENDENT STUDY IN MUSIC 1.0-4.0
Project and/or study planned with sponsoring faculty member.
Prerequisite: Instructor's permission.

MUHS 307
MUSIC HISTORY I 3.0
Research method and music bibliography. Styles, genres and shaping forces of western music from the rise of polyphony in the middle ages through the music of Haydn and Mozart.
Prerequisites: MUCP 202, majors only or instructor's permission.

MUHS 308
MUSIC HISTORY II 3.0
Continuation of MUHS 307, beginning with Beethoven; the music of the Romantic era as manifested in the nineteenth and twentieth centuries; major currents of the Modern era.
Prerequisites: MUHS 307 or instructor's permission.

MUHS 400
SELECTED TOPICS IN MUSIC I 1.5
Intensive study of a single composer or limited array of works may be taken a second time. 7-week course.
Prerequisites: MUHS 307, 308, or instructor's permission.

MUHS 401
SELECTED TOPICS IN MUSIC II 1.5
Intensive study of a single composer or limited array of works may be taken a second time. 7-week course.
Prerequisites: MUHS 307, 308, or instructor's permission.

MUHS 403
SELECTED TOPICS IN MUSIC HISTORY 3.0
Intensive study of composer, a genre or a particular problem in the history of music. May be repeated for credit.
Prerequisites: MUCP 202 and MUHS 308.

MUHS 404
SELECTED TOPICS IN MUSIC HISTORY 3.0
Intensive study of composer, a genre or a particular problem in the history of music. May be repeated for credit.
Prerequisites: MUCP 202 and MUHS 308.

MUHS 407
MUSIC HISTORY III 3.0
Major figures, forms, genres and styles from Debussy to the present.
Prerequisite: MUHS 308.

MUHS 462
PROJECT IN MUSIC I (SEMINAR) 3.0
Research on a project or problem in an area selected by each student with the instructor's approval; conducted in America or abroad.
Prerequisite: Permission of instructor.

MUSH 463
PROJECTS IN MUSIC II (SEMINAR) 3.0
Research on a project or problems in an area selected by each student with the instructors approval; conducted in America or abroad.
Prerequisite: Permission of instructor.

MUHS 499
INDEPENDENT STUDY IN MUSIC HISTORY AND LITERATURE 1.0
Project and/or study planned with sponsoring faculty member.
Prerequisite: Permission of instructor.

MUMG 460
INTERNSHIP IN PERFORMING ARTS MANAGEMENT I 4.0
Field work, 2 days per week (or the equivalent) in a professional situation. On-the-job training in day-to-day operations of a performing arts organization. Students will participate in all facets of production, observe decision-making activities. Registrants must drive and provide own transportation.
Prerequisites: MUMG 450, 451: permission of sponsor; permission of deptartment chairperson; 1 semester of psychology.

MUMG 461
INTERNSHIP IN PERFORMING ARTS MANAGEMENT II 4.0
Continuation of internship in Performing Arts Management I; 2 days per week or equivalent in field work with an arts organization devoted to performance. Registrants must drive and provide own transportation.
Prerequisites: MUMG 460; permission of sponsor; permission of department.

MUMG 462
INTERNSHIP IN PERFORMING ARTS MANAGEMENT III 1.0-15.0
Full semester's internship in a performing arts organization with time allocation mutually decided by the sponsor and the student's major department. Interns must be able to drive and to provide own transportation.
Prerequisites: MUMG 461; permission of sponsor; permission of major department.

MUMG 470
EXTERNSHIP IN PERFORMING ARTS MANAGEMENT 1.0-15.0
Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.
Prerequisites: MUMG 461; two semesters of internship; permission of sponsor(s) and major department.

MUMG 499
INDEPENDENT STUDY IN ARTS MANAGEMENT 1.0-4.0
Special project in arts management.
Prerequisites: Permission of instructor.

MUPR 020
MADRIGAL SINGERS 0.0-0.5
Study through rehearsal and performance of Madrigals. Open to all through audition.

MUPR 031
ORCHESTRA 0.0-0.5

MUPR 032
BAND 0.0-0.5

MUPR 034
OPERA WORKSHOP 0.0-2.0
Opera studied through performance. Nature of dramatic music, problems of movement, make-up, costuming, props and scenery.
Prerequisites: Instructor's permission.

MUPR 038
COLLEGIUM MUSICUM 0.0
Study of early instruments: viola da gamba, lute, recorder, krummhorn, sackbut, psaltery, etc. Concert performance of Medieval, Renaissance, and early baroque music.

MUPR 040
MASTER CLASS IN PERFORMANCE 0.50
Performance of repertoire for coaching in interpretation, style, analysis, technique, etc. Required in conjunction with each course in the primary and major instrument.
Prerequisites: Primary instrument requirement must be met.

MUPR 060
MUSIC THEATRE PRACTICUM 1.0
Preparation and presentation of a work of musical theatre.
Prerequisites: Audition of permission of instructor.

MUPR 100
CLASS PIANO FOR THE NON-MUSIC MAJOR 3.0
Basic skills and fundamental knowledge of the keyboard. A basic knowledge of music reading is helpful but not necessary. Meets the General Education Requirement - Electives, Creative Expression.

MUPR 101
CLASS PIANO FOR THE NON-MUSIC MAJOR II 3.0
Continuation of basic skills and fundamental knowledge of keyboard. Music reading, both treble and bass clefs, required. Skills covered include sightreading, technical exercises, harmonization of melodies, and improvisation. The course will contain materials from various styles and periods of music, including Baroque, Classical, and Jazz.
Prerequisites: MUPR 100 or permission of instructor.

MUPR 103
VOICE CLASS FOR THE NON-MUSIC MAJOR 3.0
Study of singing through vocal exercises and the performance of English and American art, theatrical and popular songs. Meets the General Education Requirement - Electives, Creative Expression.

MUPR 105
MODERN GUITAR WORKSHOP 3.0
Sight reading, chord playing and technical skills needed for the commercial musical scene. Latin music, swing rhythms, rock interpretations, jazz styles (chord and single note soloing), effective accompaniment styles. Open to majors and non-majors. Basic knowledge of guitar, some reading ability required. Meets the General Education Requirement - Electives, Creative Expression.

MUPR 107
RECREATIONAL INSTRUMENTS FOR THE NONREADER OF MUSIC 2.0
Elementary playing, accompanying, and teaching skills on instruments like accordion, recorder, tonette, autoharp, ukulele, harmonica, and guitar.
Prerequisite: Permission of instructor.

MUPR 201
PIANO LITERATURE I 2.0
Investigation through performance and directed listening of standard piano repertoire from J.S. Bach to the present.
Prerequisites: Permission of instructor.

MUPR 202
PIANO LITERATURE II 2.0
Continuation of Piano Literature I.
Prerequisite: MUPR 201, majors only.

MUPR 203
SOPHOMORE RECITAL 0.0
Public performance of solo literature. Required of MUPR majors.
Prerequisite: Three semesters of private instruction or equivalent; majors only; instructor's permission.

MUPR 204
PIANO ACCOMPANYING 2.0
Problems of transposition, ensemble, interpretation and sight reading as applied to accompanying vocal and instrumental literature.
Prerequisite: Technique satisfactory to instructor.

MUPR 276
INSTRUMENTAL LITERATURE I 2.0
Survey of various instrumental genres for solo, small ensemble and orchestra.
Prerequisite: Performance ability on standard orchestra or band instrument.

MUPR 277
INSTRUMENTAL LITERATURE II 2.0
Continuation of Instrumental Literature I.
Prerequisites: MUPR 276, majors only.

MUPR 301
CHAMBER ENSEMBLE PERFORMANCE 0.0-0.5
Study through playing or singing of chamber music in ensembles of varying size and musical styles.
Prerequisite: Ability to perform at a level satisfactory to instructor.

MUPR 302
JAZZ ENSEMBLE 0.0-0.5
Contemporary ensemble requirements like jazz phrasing, section playing, interpretation, improvisation studied through ensemble rehearsal and performance.
Prerequisite: Permission of instructor.

MUPR 303
JUNIOR RECITAL 0.0
Public performance of solo literature. Required of MUPR majors, if MUPR 203 not completed.
Prerequisites: Five semesters of private instruction, or equivalent; majors only; instructor's permission.

MUPR 304
JAZZ KEYBOARD AND THEORY 2.0
Introduction to jazz techniques of harmonization, improvisation and theory at the keyboard in varying styles.
Prerequisites: MUPR 101, 102, 103, 104 or permission of instructor.

MUPR 335
ELEMENTARY CONDUCTING 2.0
Baton techniques and clef reading in orchestral and choral scores.
Prerequisites: MUCP 202.

MUPR 340
ITALIAN REPERTORY AND DICTION I 1.0
Italian art songs. Interrelation of the poetic text. The vocal musical line and the instrumental part; technical and the stylistic demands of the music. Italian diction introduced. Emphasis on listening and performing. Majors only.

MUPR 341
ITALIAN REPERTORY AND DICTION II 1.0
Continuation of MUPR 340.
Prerequisites: MUPR 340, majors only, basic knowledge of Italian diction.

MUPR 342
FRENCH REPERTORY AND DICTION I 1.0
Basic French for singing; enunciation and pronunciation; vocabulary.
Prerequisite: Some fundamental knowledge of use of singing voice, majors only.

MUPR 343
FRENCH REPERTORY AND DICTION II 1.0
Continuation of MUPR 342. Study of French repertory projection of text, musical style.
Prerequisites: MUPR 342; basic knowledge of French diction.

MUPR 344
GERMAN REPERTORY AND DICTION I 1.0
Basic German for singing. Enunciation and pronunciation; vocabulary.
Prerequisites: Some fundamental knowledge of use of singing voice.

MUPR 345
GERMAN REPERTORY AND DICTION II 1.0
Continuation of MUPR 344. Advanced material. Study of German repertory. Projection of text, musical style.
Prerequisites: MUPR 344, basic knowledge of German diction.

MUPR 346
ENGLISH REPERTORY AND DICTION I 1.0
Basic rules for singing in English; correcting poor everyday speech habits; learning songs.
Prerequisites: Fundamental knowledge of the singing voice.

MUPR 347
ENGLISH REPERTORY AND DICTION II 1.0
Continuation of MUPR 346. Art songs, contemporary arias meaning of text and means of communicating words to the audience.
Prerequisites: MUPR 346, some experience in vocal performance.

MUPR 400
SELECTED TOPICS IN MUSIC I 1.5
Intensive study of a single composer or limited array of works. May be taken a second time; 7-week course. May repeat.
Prerequisites: Majors only or permission of instructor.

MUPR 401
SELECTED TOPICS IN MUSIC II 1.5
Intensive study of a single composer or limited array of works. May be taken a second time; 7-week course. May repeat.
Prerequisites: Majors only or permission of instructor.

MUPR 403
SENIOR RECITAL 0.0
Public performance of solo literature. Required of MUED and MUPR majors.
Prerequisite: Six semesters of private instruction or equivalent; majors only; instructor's permission.

MUPR 410
JAZZ IMPROVISATION LABORATORY 2.0
Jazz improvisation and performance techniques studied through ensemble rehearsals; creative use of instrumental and harmonic skills in the jazz idiom. May repeat.

MUPR 429
CHORAL CONDUCTING 2.0
Tone production, tuning, posture, score reading, interpretation and techniques of choral conducting materials suitable for use in high school.
Prerequisite: MUPR 335.

MUPR 436
PIANO PEDAGOGY I 2.0
Methods and materials of teaching piano for piano grades I through IV. Music major - junior or senior.

MUPR 437
PIANO PEDAGOGY II 2.0
Methods and materials of teaching piano for piano grades V through VIII. Music major - junior or senior and completion of MUPR 436.

MUPR 439
PEDAGOGY I 2.0
Methods and materials of instruction in music.

MUPR 440
PEDAGOGY II 2.0
Continuation of MUPR 439.

MUPR 499
INDEPENDENT STUDY IN MUSIC PERFORMANCE 1.0-4.0
Project and/or study planned with sponsoring faculty member.
Prerequisite: Sponsoring instructor's permission.

MUTH 100
INTRODUCTION TO MUSIC THERAPY 2.0
Survey of use of music therapy with various populations and other topics of relevance to the music therapist.

MUTH 105
PIANO IMPROVISATION FOR THE MUSIC THERAPIST 1.0
Improvisation including basic Nordoff-Robbins techniques.
Prerequisite: MUPR 104, or its final examination.

MUTH 106
PIANO ACCOMPANYING TECHNIQUES FOR THE MUSIC THERAPIST 1.0
Continuation of MUTH 105 and completion of songs.
Prerequisite: MUTH 105.

MUTH 260
METHODS AND MATERIALS IN MUSIC THERAPY 2.0
A variety of music activities and how to adapt them for music therapy settings; leadership techniques; simple instruments used in therapy.
Prerequisites: MUTH 261, 262.

MUTH 261
THERAPY AND OBSERVATION SKILLS FOR MUSIC THERAPY 2.0
Observing, measuring, and recording behavior in a music therapy setting and other aspects of planning for music therapy session as well as observing music therapy sessions.
Prerequisite: MUTH 160, instructor's permission.

MUTH 262
MUSIC THERAPY PRACTICUM I 1.0
Improvement of the functioning of a client or group of clients with physical or mental disabilities through the use of music therapy. Discussion of the clients and their progress and other aspects of the clinical work.
Prerequisites: MUTH 160, 261.

MUTH 263
MUSIC THERAPY PRACTICUM II 1.0
Continuation of MUTH 262.
Prerequisite: MUTH 262.

MUTH 361
MUSIC THERAPY PRACTICUM III 1.0
Continuation of MUTH 263.
Prerequisite: MUTH 263.

MUTH 362
MUSIC THERAPY PRACTICUM IV 1.0
Continuation of MUTH 361.
Prerequisite: MUTH 361, majors only.

MUTH 363
MUSIC THERAPY PRACTICUM V 1.0
Continuation of MUTH 362.
Prerequisite: MUTH 362.

MUTH 364
MUSIC THERAPY PRACTICUM VI 1.0
Continuation of MUTH 363.
Prerequisite: MUTH 363.

MUTH 400
MUSIC THERAPY TRAINING GROUP 1.5
Expression and exploration of feeling through use of creative media. Particular attention to process so that experience may be generalized and subsequently used with client groups. Meets 2 1/2 hours per week for two semesters.
Prerequisite: Instructor's permission.

MUTH 402
GUIDED IMAGERY AND MUSIC (GIM) 1.5
Introduction to the facets of Guided Imagery and Music. Theory and process of the technique will be explored verbally and experientially. Is equivalent (with possible additional requirements) to phase I GIM training, sponsored by IMI Training Seminars, Baltimore, MD.
Prerequisites: Open to juniors and seniors only; permission of instructor required.

MUTH 461
MUSIC THERAPY WITH CHILDREN 3.0
Ways in which music and the therapist may be used to influence the behavior of children, the mentally retarded, and the physically disabled.
Prerequisites: MUTH 260, junior standing.

MUTH 462
MUSIC THERAPY WITH ADULTS 3.0
Ways in which music therapy may be used in working with adult psychiatric patients, addictions, offenders, and geriatrics. Setting up a music therapy program.
Prerequisite: Senior standing.

MUTH 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
Emotional correlates of the musical experience are explored through research findings, psychological testing and inquiry, and philosophy. The implications of current theories applied to practice in music therapy, education and performance are discussed. This course is cross-listed with PSYC 463.

MUTH 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
The basic literature concerning psychological research in music is reviewed, with emphasis on experimental research techniques and interpretation of data. the implications of research for music therapy, education, and performance are discussed. This course is cross-listed with PSYC 464.

MUTH 465
INTERNSHIP IN MUSIC THERAPY 1.0
Six months clinical training as a music therapy intern in a training program approved by the National Association of Music Therapy.
Prerequisite: Completion of all course work leading to a Baccalaureate degree or equivalent.

MUTH 499
INDEPENDENT STUDY IN MUSIC THERAPY 0.50-4.0
Project and/or study planned with sponsoring faculty member.

Philosophy and Religion

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Michael S. Kogan

Taking courses in philosophy and religious studies means gaining a greater ability to think clearly and independently about the central issues of human life. These studies present the occasion and the means to reflect critically on basic values and beliefs. The courses complement other major programs by enhancing awareness of the philosophical, ethical and religious elements and implications of other academic studies.

Both areas can be taken as a major leading to a Bachelor of Arts degree. They are also good second majors to enrich a liberal arts interest. A minor is offered in both programs. Each major is excellent preparation for later graduate and professional work.

Philosophy Major

Required Courses

		Semester Hours
PHIL	102 Ethics	3
PHIL	104 Social and Political Philosophy	3
PHIL	310 Knowledge, Belief and Truth	3
PHIL	312 Existence and Reality	3
Elective in Fields of Philosophy (even course numbers)		3
PHIL	331 History of Philosophy: Ancient Philosophy	3
PHIL	333 History of Philosophy: Modern Philosophy	3
Electives in History and Movements (odd course numbers)		9
Seminar in Philosophy (select one)		3
Total Semester Hours		33

Philosophy Minor

Required Courses (18 semester hours)

	Semester Hours
Fields of Philosophy (even course numbers)*	6-12
History and Movements in Philosophy (odd course numbers)*	6-12

*Consult with a departmental advisor for the choice of courses.

Religious Studies Major

Required Courses

RELG 100 Religions of the World	3
RELG 401, 403 Philosophical Backgrounds of Western Religion I, II	6

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department.....21

Seminar in Religious Studies (select one) 3

Religious Studies Minor

Required Courses

RELG 101 Introduction to Religion	3
RELG 460, 462, 465, 467 Seminars in Religious Studies	3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department.....12

Philosophy

Courses of Instruction

PHIL 100
INTRODUCTION TO PHILOSOPHY 3.0
The nature, scope, methods, basic problems and major types of philosophy. Meets the General Education Requirement - Humanities, Philosophy/Religion.

PHIL 102
ETHICS 3.0
The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories. Meets the General Education Requirement - Humanities, Philosophy/Religion.

PHIL 104
SOCIAL AND POLITICAL PHILOSOPHY 3.0
The nature of society and the state, their relation to each other and to the individual, and an evaluation of some main political and social ideals. Meets the General Education Requirement - Humanities, Philosophy/Religion.

PHIL 106
LOGIC 3.0
The forms of deductive and inductive argument in traditional logic, the fundamentals of modern formal logic, Meets the General Education Requirement - Humanities, Philosophy/Religion.

PHIL 202
ETHICS AND BUSINESS 3.0
A study of the meaning of morality in the modern world of business. Course contains a balance of theory and practice as it examines behavior of business against background of conflicting ethical theory.

PHIL 204
MORALS AND MEDICINE 3.0
A study of moral decision making in regard to specific moral problems arising in such areas of contemporary medical research and practice as experimentation on human subjects, euthanasia, abortion, information rights of patients, and eugenic sterilization.

PHIL 206
PHILOSOPHICAL ISSUES IN LAW AND JUSTICE 3.0
An examination of current philosophical accounts of both distributive and retributive justice. Close attention will be paid to such specific issues as the right of society to legislate its common morality, the use of behavior modification techniques on criminal offenders and the restoration of capital punishment.

PHIL 231
AMERICAN PHILOSOPHY 3.0
The major American philosophers and philosophical movements with emphasis on Peirce, James, Royce, and Dewey.

PHIL 233
CONTEMPORARY PHILOSOPHERS 3.0
The major movements in contemporary philosophy, studied through writings of leading exponents.

PHIL 235
MARX AND MARXISM 3.0
The philosophy of Marx with special attention to his Hegelian background, his concept of man, and the genesis of his social and political philosophy. Engels, Lenin and contemporary existentialist Marxism are considered briefly.

PHIL 237
ORIENTAL PHILOSOPHY 3.0
Philosophical interpretations of experience and reality in representative movements of Eastern thought. Meets the Minorities Culture Requirement.

PHIL 239
EXISTENTIALISM 3.0
The major themes and concepts of existentialism in selected writings of the existentialist philosophers.

PHIL 260
PHILOSOPHIES OF ART 3.0
The major philosophies of art in the history of Western thought. The conceptual network of ideas of the thinker in question will be delineated, and connections shown between the thinker and the philosophical and artistic themes of that period.

PHIL 262
PHILOSOPHY OF RELIGION 3.0
The nature and shape of religious experience; criteria for meaning within religious thought and language. Metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.

PHIL 264
CRITICAL REASONING AND ARGUMENTS 3.0
An intermediary level course concentrating upon argumentation and rhetorical devices as they actually function in everyday conversation, philosophical discussion, forensic debate, etc. Arguments will be examined with an eye to penetrating purely formal structure and discovering the underlying dynamics which contribute to cogency in a given context.

PHIL 266
PHILOSOPHY OF SCIENCE 3.0
The epistemological character of scientific thought and the relevance of scientific findings for the clarification and eventual resolution of traditional philosophical issues.

PHIL 268
PHILOSOPHICAL THEORIES OF HISTORY 3.0
Speculative and critical theories of history, with special attention to epistemological issues such as the nature of historical understanding and explanation. The objectivity of historical knowledge, historical causation and determinism.

PHIL 290
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Philosophy of science, philosophy of history, philosophy of law. Topics announced each semester.

PHIL 291
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Philosophy of science, philosophy of history, philosophy of law. Topics announced each semester.

PHIL 292
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Philosophy of science, philosophy of history, philosophy of law. Topics announced each semester.

PHIL 293
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Philosophy of science, philosophy of history, philosophy of law. Topics announced each semester.

PHIL 295
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.

PHIL 297
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.

PHIL 310
KNOWLEDGE, BELIEF AND TRUTH 3.0
The major issues and theories concerning the relationship between knowledge, experience and reality.

PHIL 312
EXISTENCE AND REALITY 3.0
An examination of major philosophical theories concerning the nature of reality.

PHIL 314
PHILOSOPHY OF LANGUAGE 3.0
The major philosophical theories concerning the nature of language in its relation to thought, reality and communication.

PHIL 316
PHILOSOPHY OF LAW 3.0
An introduction to the philosophical issues of juris prudence. Close attention is given to the status and nature of law, the concept of equality and the limits of law.

PHIL 324
LEGAL REASONING 3.0
The goal of this course is to provide students in the pre-law minor with the theoretical foundations to develop a model and a method of addressing legal problems. The course will acquaint students with principles of legal reasoning and argument in the Anglo-American common law tradition and a model of legal reasoning and a methodology for resolving legal problems as developed within evolving social and philosophical notions of justice and fairness.
Prerequisites: LSLW 200, PHIL 264.

PHIL 331
HISTORY OF PHILOSOPHY: ANCIENT PHILOSOPHY 3.0
The major philosophical systems and movements from the pre-Socratics to Plotinus with special emphasis on Plato and Aristotle.

PHIL 333
HISTORY OF PHILOSOPHY: MODERN PHILOSOPHY 3.0
The major philosophical systems and movements from the Renaissance to Kant.

PHIL 335
NINETEENTH CENTURY PHILOSOPHY 3.0
A study of the major philosophical figures and movements of the nineteenth century, with special emphasis on Hegel and the Hegelian tradition.

PHIL 390
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Topics announced each semester.

PHIL 392
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Topics announced each semester.

PHIL 395
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.

PHIL 397
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.

PHIL 424
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers or works. Topic announced each semester.

PHIL 426
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems philosopher, or works. Topics announced each semester.

PHIL 427
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers, or works. Topic announced each semester.

PHIL 429
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers, or works. Topics announced each semester.

PHIL 444
INDEPENDENT STUDY IN PHILOSOPHY 3.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

PHIL 446
INDEPENDENT STUDY IN PHILOSOPHY 3.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

PHIL 447
INDEPENDENT STUDY IN PHILOSOPHY 3.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

PHIL 449
INDEPENDENT STUDY IN PHILOSOPHY 3.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

Religion

Courses of Instruction

RELG 100
RELIGIONS OF THE WORLD 3.0
The major religious traditions, with emphasis on basic beliefs and on the nature and diversity of religious awareness. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 101
INTRODUCTION TO RELIGION 3.0
An inquiry into man's religious questions and expressions, their implications, and their critical appreciation and assessment. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 102
HISTORY OF WESTERN RELIGION 3.0
The theological and ecclesiastical developments of the major living religions of the Western world emphasis on Judaism and Christianity.

RELG 103
RELIGION AND MORAL ISSUES 3.0
Ethical issues as currently discussed by representative thinkers of the major Western religious traditions. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 200
OLD TESTAMENT: GENESIS TO JOSHUA 3.0
The evolution of the ancient Hebrew world view as developed in the biblical books covering the early period of Israelite history. The course includes a close reading of the books of Genesis, Exodus and Numbers, comparison with contemporary Middle Eastern religious texts and study of the biblical story from the creation through the career of Moses (circa 1250 B.C.E.).

RELG 202
OLD TESTAMENT: JOSHUA TO DANIEL 3.0
The history and theology of Israelite religion as seen in the biblical books covering the middle and late periods (1150-165 B.C.E.).

RELG 204
NEW TESTAMENT: JESUS AND THE GOSPELS 3.0
The story of Jesus of Nazareth as told in the Gospels of Mark and Matthew. The course explores Old Testament backgrounds, Jesus' place in the Jewish religious context of first century Israel, the question of the historical Jesus and the origins of and relationships between the various gospel traditions.

RELG 206
NEW TESTAMENT: PAUL AND THE EARLY CHURCH 3.0
A close study of Luke-Acts, John, selected letters of Paul and other later Epistles. The course explores the development of the theology and institutions of the early church as revealed in New Testament documents of the first and early second centuries.

RELG 210
RELIGIONS OF THE NORTH AMERICAN INDIANS 3.0
An introduction to the religious traditions and spirituality of the American Indian peoples. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

RELG 212
ORIENTAL RELIGIONS 3.0
The cultural and theological bases for the faith and practice of major eastern religions—Buddhism, Confucianism, Hinduism, Taoism. Meets the Minorities Culture Requirement.

RELG 221
RELIGION AND CULTURE 3.0
The interrelation of religion and culture in the formulation of human values and views, life-styles and institutions. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 223
RELIGION IN AMERICA 3.0
The growth and development of various religious movements—Protestant, Catholic, Jewish, and sectarian minorities—from colonial times to the present.

RELG 225
RELIGION AND SOCIAL CHANGE 3.0
The impact of economic, social and political movements on religious belief and the ways in which religion has both furthered and impeded social development. Meets the General Education Requirement -Contemporary Issues.

RELG 229
PHILOSOPHY OF RELIGION 3.0
A philosophical examination of religion. It includes the nature and shape of religious experience: criteria for meaning within religious thought and language, metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.

RELG 261
CONTEMPORARY RELIGIOUS THOUGHT 3.0
The current trends and issues in religious thought as developed in the writings of contemporary theologians.

RELG 263
RELIGION AND PSYCHOLOGY I 3.0
The views of faith and the religious person reached by such major psychological approaches as the Freudian, Neo-Freudian, analytic-ego, existential and Jungian. The implications of such psychology for Jewish, Catholic, and Protestant believers and religious thinkers.

RELG 265
RELIGION AND PSYCHOLOGY II 3.0
Selected psychological investigations and/or theories of religious phenomena; the implications for constructive theology and positive religious response.

RELG 267
WOMEN IN RELIGION 3.0
Focuses on women's own experience in religions and the various perspectives of women held by both Eastern and Western religious traditions. The course deals with questions such as the nature of women, patriarchy and religion, and roles of women in religions. Meets the Minorities culture Requirement.

RELG 269
DEATH AND DYING: RELIGIOUS PERSPECTIVES 3.0
This course is designed to give the student opportunity to study cross cultural religious and philosophical attitudes toward death and the procedures surrounding death. Material for the course will cover rituals of death and dying in both Eastern and Western religious tradition as well as "secular" rituals associated with death. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 273
THE HOLOCAUST: RELIGIOUS PERSPECTIVES 3.0
A study of Nazi extermination of 6,000,000 Jews during World War II and the moral and religious issues raised by this event.

RELG 300
CLASSICS OF WESTERN RELIGIOUS THOUGHT 3.0
Selected works of significant theologians of the western tradition of issues such as the nature of God, Christology, Soteriology, Ecclesiology, Theodicy, etc.

RELG 304
ISLAMIC RELIGIOUS TRADITIONS 3.0
The historical origins of Islam, the emergence and development of various strands of religious tradition, and their impact on the modern world.

RELG 350
SELECTED STUDY IN WORLD RELIGIONS 3.0
Topics announced each semester.

RELG 352
SELECTED STUDY IN RELIGION 3.0
Topics announced each semester.

RELG 355
SELECTED STUDY IN RELIGION 3.0
Topics announced each semester.

RELG 357
SELECTED STUDY IN RELIGION 3.0
Topics announced each semester.

RELG 401
PHILOSOPHICAL BACKGROUNDS OF WESTERN RELIGION I 3.0
The inter relationships of western religion with philosophy from the pre-Socratics through the Middle Ages. The emergence of classical fields of philosophy.

RELG 403
PHILOSOPHICAL BACKGROUNDS OF WESTERN RELIGION II 3.0
The inter-relationship of Western religion with philosophy in the Renaissance, enlightenment and modern period. The emergence of the autonomous spirit of criticism.

RELG 460
SEMINAR IN WORLD RELIGIONS 3.0
Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester.

RELG 462
SEMINAR IN RELIGION 3.0
Cooperative research seminar in major movements, problems, theologians.

RELG 465
SEMINAR IN RELIGION AND CULTURE 3.0
Cooperative research seminars in major movements, problems, theologians. Topic announced each semester.

RELG 467
SEMINAR IN RELIGIOUS THOUGHT 3.0
Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester.

RELG 490
INDEPENDENT STUDY IN RELIGION 3.0-12.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

RELG 492
INDEPENDENT STUDY IN RELIGION 3.0-12.0
Directed independent study and research in religious studies to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

RELG 495
INDEPENDENT STUDY IN RELIGION 3.0-12.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

RELG 497
INDEPENDENT STUDY IN RELIGION 3.0-12.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

Physical Education, Recreation and Leisure Studies

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Tim Sullivan

Physical Education Program

Physical fitness is an essential element in each person's life. Those who graduate with the Bachelor of Science degree in Physical Education may choose either teacher education or adult fitness, a non-teaching concentration. Students concentrate within the major in a variety of areas which equip them for employment in schools, agencies or corporations where fitness is recognized as essential. Physical Education gives students a broad range of activities which develop self expression and skills for leisure, as well as a high level of physical fitness.

Physical Education (Teacher Education)

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

The Physical Education department has specific requirements for admission to the Teacher Education Program. Contact the Department for details.

Minimum grade point average, 2.67 in physical education specialization courses.

Minimum 15 semester hours in specializations by the end of sophomore year Transfer students need a minimum of 6 semester hours in physical education courses at Montclair State College.

Semester Hours

Required Theory Courses 23

PEMJ	100	Orientation to the Physical Education Profession	1
PEMJ	150	Principles and Practices of Emergency Care	3
PEMJ	220	Physiology of Exercise	3
PEMJ	221	Kinesiology	3
PEMJ	222	Basic Motor Learning	3
PEMJ	244	Physical Education Field Experience	1
PEMJ	351	Adapted Physical Education	3
PEMJ	352	Development and Philosophy of Physical Education (Juniors and seniors only)	3
PEMJ	356	Management of Physical Education, Athletic, and Fitness Programs	3

Activity Courses 14

Collateral Courses:

HLTH	101	Personal Health Issues	3
CHEM	107	College Chemistry I	2
CHEM	108	College Chemistry II	2
BIOL	240	Mammalian Anatomy and Physiology I	3
BIOL	241	Mammalian Anatomy and Physiology II	3
PEMJ	355	Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Specializations Within the Major

Students are required to select a specialization from one of the following. Each requires 13 semester hours of course work.

A. Individualized Fitness

Required Courses

PEMJ	255	Practicum in Selected Physical Education Programs	2
PEMJ	340	Fitness and the Aging Process	3
PEMJ	375	Foundations and Practices in Cardiac Rehabilitation	3

Select 2 semester hours from among the following 4: 2

PEGN	251	Aerobic Activities	1
PEGN	257	Weight Training and Conditioning	1
PEGN	263	Jogging	1
PEGN	278	Yoga	1

Departmental Electives by Advisement 3

B. Coaching

Required Courses

PEMJ	226	Coaching Principles and Problems	3
PEMJ	227	Social Problems in Sport	3
OR			
HLTH	353	Psychology of Sport	3
PEMJ	255	Practicum in Selected Physical Education Programs	2

Select 1 from among:

PEMJ	301	Coaching Field Hockey	2
PEMJ	303	Coaching Basketball	2
PEMJ	304	Coaching Softball	2
PEMJ	306	Coaching Baseball	2
PEMJ	308	Coaching Football	2
PEMJ	309	Coaching Soccer	2
PEMJ	310	Coaching Swimming and Diving	2
PEMJ	317	Coaching Volleyball	2
PEMJ	332	Coaching Wrestling	2
PEMJ	333	Coaching Track and Field	2

Departmental Electives by Advisement 3

C. Athletic Training

Required Courses

Semester Hours

PEMJ	223	Basic Prevention and Care of Athletic Injuries	3
PEMJ	323	Advanced Prevention and Care of Athletic Injuries	3
PEMJ	379	Internship in Athletic Training	4

Departmental Electives by Advisement 3

D. Individual Contract

Individualized 13 semester hour program prepared in consultation with an advisor and approved by the department chairperson if existing specialization areas do not meet the student's needs. *This specialization must be approved prior to any course selection.*

E. Adapted Physical Education

PEMJ	255	Practicum in Selected Physical Education Programs	2
PEMJ	362	Physical Activities for the Developmentally Disabled and Mentally Ill	3
PEMJ	363	Physical Activities for the Sensory and Physically Disabled	3

Department Electives by Advisement 5

Concentration Within the Major

Adult Fitness
(Non-Teaching Certification)

Required Courses 23

PEMJ	100	Orientation to the Physical Education Profession	1
PEMJ	150	Principles and Practices of Emergency Care	3
PEMJ	220	Physiology of Exercise	3
PEMJ	221	Kinesiology	3
PEMJ	222	Basic Motor Learning	3
PEMJ	246	Field Experience in Adult Fitness	1
PEMJ	351	Adapted Physical Education	3
PEMJ	352	Development, and Philosophy of Physical Education	3
PEMJ	356	Management of Physical Education, Athletic, and Fitness Programs	3

Activity Courses Required 11

Theory Specialization Core 28

PEMJ	340	Fitness and the Aging Process	3
PEMJ	375	Foundations and Practices in Cardiac Rehabilitation	3
PEMJ	376	Seminar in Fitness Programming	2
MKTG	340	Introduction to Marketing	3
BSED	101	Contemporary Business	3
COUN	331	Group Dynamics	3
HENU	182	Nutrition	3

Select One:

PEMJ	380	Internship in Physical Education	8
OR			
PEMJ	381	Cooperative Education in Physical Education	8

Collateral Courses 16

HLTH	101	Personal Health Issues	3
CHEM	107	College Chemistry I	2
CHEM	108	College Chemistry II	2
Note: May select CHEM 120, 121 General Chemistry I, II as alternative			8
BIOL	240	Mammalian Anatomy and Physiology I	3
BIOL	241	Mammalian Anatomy and Physiology II	3
PEMJ	355	Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Physical Education and Health Dual Teacher Certification Requirements

Required Courses

Physical Education Theory 23
(same as for Physical Education)
Activity 14
(Same as for Physical Education)
Health (Personal Health Issues is included) 22

HLTH	213	Perspectives on Drugs	3
HLTH	290	Human Sexuality	3
HLTH	401	Teaching of Health	4
HLTH	411	School Health and Community Services	3

Select One:

HLTH	210	Consumer Health	3
HLTH	220	Mental Health	3
HLTH	240	Foundations of Environmental Health	3

Select Two:

HLTH	307	The Study of Human Disease	3
HLTH	315	Community Health	3

OR
any other HLTH Health Profession course with advisement.

Collateral Courses 16

HLTH	101	Personal Health Issues	3
CHEM	107	College Chemistry I	2
CHEM	108	College Chemistry II	2
BIOL	240	Mammalian Anatomy and Physiology I	3
BIOL	241	Mammalian Anatomy and Physiology II	3
PEMJ	355	Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Professional Sequence for Teacher Education

The sequence is the same as for Physical Education Major *except* both Health Teaching and Physical Education Teaching are required in the supervised student teaching. **Please refer to the Teacher Education Program, outlined in this catalog, for specific information on the Professional Sequence.**

Recreation and Leisure Studies Program

As more leisure time becomes available, the opportunity for leadership in both the private and public areas of recreation and leisure enterprises grows. A student who enrolls in the department's program can earn a Bachelor of Science degree with a concentration in Commercial Recreation and Tourism or Therapeutic Recreation. Both of these areas of study are designed to prepare the student for either immediate entry into the profession or graduate study. Emphasis is placed on developing leadership skills for supervisory and management levels.

Courses are also open as electives for those majoring in other fields. Here the emphasis is placed on the role of recreation and leisure in life-planning and community service.

Recreation Professions Major

Required Courses

PERL	123	Leadership Techniques in Recreation and Leisure Services	3
PERL	124	Introduction to Recreation and Leisure Services	2
PERL	225	Program Planning in Recreation and Leisure	3
PERL	228	Recreation for Special Populations	3
PERL	312	Budget and Finance	3
PERL	350	Design, Maintenance, and Utilization of Recreation, Tourism and Recreation Facilities	3
PERL	322	History and Philosophy of Leisure, Play and Recreation	3
PERL	334	Research Methods in Recreation and Leisure Services	4
PERL	430	Management of Recreation and Leisure Services	4
*PERL	437	Senior Seminar	2
**PERL	489	Internship	12

*2.45 GPA needed
**Satisfactory completion of Senior Seminar

Recreation students are required to select an 18 semester hour concentration in their major, and include 6 semester hours of Psychology under General Education.

Concentrations Within the Major

Commercial Recreation and Tourism

Required Courses

			Semester Hours
PERL	311	Special Events Planning and Promotion	3
PERL	340	Introduction to Commercial Recreation and Tourism	3
PERL	342	Delivery of Commercial Recreation and Tourism Services	3
PERL	346	Tourism and Commercial Recreation, Planning, Development, and Analysis	3
Two Business Electives selected from approved list			6

Therapeutic Recreation

Required Courses

			Semester Hours
PERL	271	Clinical Experiences in Therapeutic Recreation (Taken three times for 1 semester hour each)	3
PERL	370	Introduction to Therapeutic Recreation	3
PERL	372	Recreation and Rehabilitation Services	3
PERL	377	Programming and Supervision in Therapeutic Recreation	3
Six semester hours by advisement			6

Note: Students in this concentration are required to take Mammalian Anatomy and Physiology I and II as part of their curriculum.

Courses of Instruction

Physical Education Non-Major Courses

PEGN 200
BEGINNING SWIMMING 1.0
This course is designed for beginning swimmers and those who are not comfortable in the water. The scope of the course will cover a wide variety of swimming strokes and survival techniques. Meets the General Education Requirement - Physical Education.

PEGN 202
BADMINTON 1.0
The history, techniques, strategies, terminology and rules of badminton are discussed. Meets the General Education Requirement - Physical Education.

PEGN 203
GOLF 1.0
This course will deal with the essential information about the selection of equipment and the characteristics of the game of golf including the skills and components of the use of various clubs, rules and courtesies. Meets the General Education Requirement - Physical Education.

PEGN 230
PERSONALIZED FITNESS 3.0
An introductory course in personalized fitness covering theories and techniques of the physiological and psychological components of fitness. Designed for second careers students. This course meets the college requirement in physical education.

PEGN 242
RACQUETBALL 1.0
The origin, development, and present status in the sport of racquetball will be studied. Basic skills, game strategy, and rules will be taught and applied. Meets the General Education Requirement - Physical Education.

PEGN 250
INTERMEDIATE SWIMMING 1.0
This course is designed for men and women who have at least a minimum amount of aquatic knowledge and skill. The scope of the course will cover a wide area of swimming strokes, water stunts, and springboard diving. Organization for teaching groups and safety procedures will also receive emphasis. Meets the General Education Requirement - Physical Education.

PEGN 251
AEROBIC ACTIVITIES 1.0
This course will provide the student with an opportunity to recognize and develop cardiovascular conditioning, endurance and lifetime fitness skills. Meets the General Education Requirement - Physical Education.

PEGN 252
ARCHERY 1.0
Fundamentals and use of archery as a leisure pursuit. Meets the General Education Requirement - Physical Education.

PEGN 257
WEIGHT TRAINING AND CONDITIONING 1.0
A regimen of physical fitness (conditioning) exercises will be established for the individual student, and assistance will be rendered to help him or her in following this regimen in order to reach his or her maximum physical potential (muscle tone and endurance). Meets the General Education Requirement - Physical Education.

PEGN 258
BEGINNING TENNIS 1.0
Fundamental skills of tennis, singles & doubles play. Appreciation of tennis as a leisure pursuit. Meets the General Education Requirement - Physical Education.

PEGN 260
BEGINNING RIDING 1.0
Techniques for the beginner. Taught at a riding academy. Meets the General Education Requirement - Physical Education.

PEGN 262
VOLLEYBALL 1.0
Basic skills, game strategy and rules of volleyball. Meets the General Education Requirement - Physical Education.

PEGN 263
JOGGING 1.0
Proper techniques for jogging stressed, development of cardiovascular fitness through progressive running. Meets the General Education Requirement - Physical Education.

PEGN 264
SOCCER 1.0
The origin, development, and present status of soccer will be studied. Basic skills, game strategy, and rules will be taught and applied. As a service course to non-physical education majors, the principle aim is to introduce the student to the fundamentals of soccer. Meets the General Education Requirement - Physical Education.

PEGN 266
SKIING 1.0
The student is provided with information pertaining to basic techniques, safety, etiquette, and equipment relevant to his level of skiing. Instruction will be given on the slope for five weeks along with additional information to be given on campus. An additional fee is required for lift tickets and rental equipment. Meets the General Education Requirement - Physical Education.

PEGN 271
SOCIAL DANCE 1.0
The course covers the traditional ballroom dances as well as current popular styles and routines. Meets the General Education Requirement - Physical Education.

PEGN 272
BOWLING 1.0
Adequately prepare and develop the student with a background of the necessary skills essential to performing and understanding the art of bowling. Meets the General Education Requirement - Physical Education.

PEGN 274
SCUBA DIVING 1.0
Scuba diving techniques and safety. Meets the General Education Requirement - Physical Education.

PEGN 275
BEGINNING KARATE 1.0
Skills and development of personal ability in performance of the activity. Meets the General Education Requirement - Physical Education.

PEGN 278
YOGA 1.0
Instruction will be given in how to perform yoga postures, plus the techniques of breathing, relaxation, awareness, and concentration, with their proper progression. The historical and psychological factors involved in the development of yoga, and its increasingly widespread appeal physically and philosophically will be dealt with. Meets the General Education Requirement - Physical Education.

Physical Education Major Courses

PEMJ 100
ORIENTATION TO THE PHYSICAL EDUCATION PROFESSION 1.0
A professional orientation and an introduction to the breadth of the field of physical education in schools, industry and community agencies.

PEMJ 101
FIELD HOCKEY 1.0
The purpose of the course is to identify the basic skills, strategy and techniques of team play. Emphasis will be placed on individual skill development, team techniques, strategies and the application of these in game situation.

PEMJ 102
SOCCER 1.0
The history, development and present status of the sport. Basic skills, game strategy, rules, terminology and specifics concerning class organization, safety and evaluation will be presented.

PEMJ 103
BASKETBALL 1.0
The basic elements and concepts of offensive and defensive strategy and the rules of basketball will be included.

PEMJ 104
SOFTBALL 1.0
Skills, techniques, rules and concepts of team play and strategy essential to this sport and playing the game.

PEMJ 106
BASEBALL 1.0
Methods, theory, skill testing and class organization for effective teaching of baseball.

PEMJ 108
FOOTBALL 1.0
The history, development and present status of the sport basic skills and game strategy, rules and specific techniques concerning class organization, safety and evaluation.

PEMJ 110
AQUATICS 1.0
For those with a minimum amount of aquatic knowledge and skill. Swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety precautions.

PEMJ 111
LIFESAVING 1.0
Developing individual skill and confidence in lifesaving and water safety skills. Open to undergraduate women and men.
Prerequisites: 1. Perform standing front dive. 2. Swim 440 yds. continuously using various strokes 3. Dive from surface to minimum depth of six feet and swim 15 feet underwater 4. Tread water one minute.

PEMJ 112
WATER SAFETY INSTRUCTION 1.0
This course follows the standards and procedures for certification by the American Red Cross.
Prerequisite: A current A.R.C. senior life saving card.

PEMJ 113
MENS GYMNASTICS AND TUMBLING 2.0
This course is designed to introduce methods and materials in gymnastics and tumbling for the major students. Emphasis will be placed on the organization of gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics and tumbling also will be emphasized.

PEMJ 114
WOMENS GYMNASTICS AND TUMBLING I 2.0
Developing skills on the apparatus; demonstrating an understanding of skills for elementary through high school. Safety measures related to equipment and spotting. Students perform progression for basic skills on all equipment.

PEMJ 115
LACROSSE 1.0
The history, development, and present status of the sport will be studied. The student will develop basic skills and learn game strategy, rules and specific techniques concerning class organization, safety and evaluation.

PEMJ 116
VOLLEY BALL 1.0
The student is provided with the history, development, and present status of the sport. Analysis of basic skills, game strategy, rules, terminology, plus specifics concerning class organization, safety, and evaluation.

PEMJ 118
WOMENS GYMNASTICS AND TUMBLING II 2.0
To provide the student with knowledge and skill in advanced techniques in women's gymnastics and tumbling applicable for secondary school students. Spotting and safety measures will be emphasized.
Prerequisites: Performance required prior to registration. May be taken in lieu of women's gymnastics and tumbling. Consult the department chairperson first.

PEMJ 120
BOWLING 1.0
The history, rules, techniques, strategies, terminology and rules are discussed and students attend classes at bowling alleys for practical experience.

PEMJ 122
GOLF 1.0
To permit students to attain the minimum skill necessary for understanding the fundamentals of this sport.

PEMJ 124
BADMINTON 1.0
A comprehensive analysis of the techniques and skills of each sport; current trends, rules, terminology, equipment and game strategy.

PEMJ 126
ARCHERY 1.0
The development and present status of archery; basic skills, tournament strategy and rules.

PEMJ 128
FENCING 1.0
This course will introduce the physical education major to the fundamental skills, techniques, strategies, and rules of foil fencing. Included are methods for implementing a fencing program in physical education classes.

PEMJ 130
TENNIS 1.0
This course will introduce the physical education major to the fundamental skills, techniques, strategy, and rules of tennis and explore ways to implement tennis instruction in a school situation.

PEMJ 131
FITNESS ACTIVITIES 2.0
A comprehensive course to provide the student with knowledge needed for developmental programming of personalized fitness activities utilizing all modes of fitness training.

PEMJ 132
WRESTLING 1.0
The history, development and present status of wrestling; basic skills, strategy, rules and specific techniques concerning class organization safety and evaluation.

PEMJ 134
TRACK AND FIELD 1.0
Techniques for performance and analysis of all track and field activity, including cross-country.

PEMJ 140
MOVEMENT EDUCATION AND RHYTHM 1.0
This course presents theory, materials, and methods for the teaching of correct movement and rhythm in the elementary schools. Creativity will be encouraged, and the use of percussion instruments and other media for accompanying movement will be taught.

PEMJ 141
AMERICAN FOLD AND SQUARE DANCE 1.0
Skills and teaching methods in folk and square dance. The student will also experience calling a square dance.

PEMJ 142
EUROPEAN FOLK DANCE 1.0
This course will acquaint the student with a variety of European folk dance.

PEMJ 143
SOCIAL DANCE 1.0
The fundamental of social dance are presented to the student.

PEMJ 150
PRINCIPLES AND PRACTICES OF EMERGENCY CARE 3.0
Provides for study of emergency care management. Provides knowledge and skills for teaching principles and practices of emergency care in a school or adult fitness setting.

PEMJ 220
PHYSIOLOGY OF EXERCISE 3.0
The physiological effects of physical activity upon the human organism. The reaction of exercises of speed, strength, and endurance upon the muscular and circulo-respiratory system.
Prerequisites: BIOL 240, 241.

PEMJ 221
KINESIOLOGY 3.0
An examination of the biomechanical principles of human movement and basic techniques of biomechanical analysis, based on the functional anatomy of the skeletal, muscular, and nervous systems.
Prerequisites: BIOL 240, 241.

PEMJ 222
BASIC MOTOR LEARNING 3.0
This course provides students with knowledge of the theoretical basis of human learning and performance in motor activity.
Prerequisites: BIOL 240, 241.

PEMJ 223
BASIC PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
An introductory course designed to provide the student with information about those aspects of sports medicine which are necessary to the safe conduct of sports.

PEMJ 224
CAMPING AND OUTDOOR EDUCATION 2.0
This dual course introduces the student to outdoor education and camping. A basic view of the outdoor education field, especially as it relates to elementary and secondary education; introduction to recreational (individual and small group), and organized camp.

PEMJ 226
COACHING PRINCIPLES AND PROBLEMS 3.0
This course is designed to present an overview of the principles and problems pertaining to coaching on the high school and college levels.

PEMJ 227
SOCIAL PROBLEMS IN SPORTS 3.0
Designed to analyze a number of important and controversial issues of sports in American society. Meets the General Education Requirement - Contemporary Issues.

PEMJ 230
MODERN DANCE IN PHYSICAL EDUCATION 1.0
This course is designed to provide the physical education student with the skills and knowledge to teach a basic unit in modern dance in the schools.

PEMJ 235
MOVEMENT EXPERIENCES IN THE ELEMENTARY SCHOOL 2.0
A comprehensive activity course designed to present theory and practical application of movement experiences and non-sport activities in physical education in the elementary school.

PEMJ 240
GYMNASTICS FOR ELEMENTARY SCHOOL 2.0
The methods and materials in gymnastics for elementary schools through a sensorimotor approach to learning and performance.
Prerequisite: PEMJ 113 or 114.

PEMJ 242
WOMEN'S GYMNASTICS FOR SECONDARY SCHOOL 2.0
Methods and materials in gymnastics which are applicable for teaching in the secondary schools. Methods of teaching tumbling and apparatus work.

PEMJ 244
PHYSICAL EDUCATION FIELD EXPERIENCE 1.0
This course will provide an opportunity for physical education majors interested in teacher education to examine the nature and function of physical education programs in a public school setting.

PEMJ 246
FIELD EXPERIENCE IN ADULT FITNESS 1.0
This course permits physical education majors interested in adult fitness an opportunity to observe and evaluate a variety of adult fitness programs.

PEMJ 248
TEACHING GYMNASTICS IN THE SCHOOLS 2.0
An understanding of the techniques of the teaching of gymnastics in physical education programs within the school setting will be provided.
Prerequisite: PEMJ 113 or 114.

PEMJ 255
PRACTICUM IN SELECTED PHYSICAL EDUCATION PROGRAMS 2.0
This field based course affords students in the physical education teacher education program an opportunity to apply theoretical knowledge in a practical situation in schools or agencies in the area of coaching, individualized fitness or adapted physical education.

PEMJ 301
COACHING FIELD HOCKEY 2.0
Concepts and organizational procedures for coaching field hockey skills, offensive and defensive strategies and rules.

PEMJ 303
COACHING BASKETBALL 2.0
The course is designed to provide students with an introduction to the art of coaching the game of basketball. Students have an opportunity to explore various contemporary styles and aspects of team play. Teaching, beginning with individual player development and progressing to team development, will be covered.

PEMJ 304
COACHING SOFTBALL 2.0
Concepts and organizational procedures for coaching softball. Skills, offensive and defensive strategies and rules.

PEMJ 306
COACHING BASEBALL 2.0
Individual skills and team techniques of coaching baseball; administration and organization of practice sessions for effective learning.

PEMJ 308
COACHING FOOTBALL 2.0
Techniques and methods of coaching football with emphasis on team play; offensive and defensive methods for running, passing and kicking game. Complete organization of a football program is presented.

PEMJ 309
COACHING SOCCER 2.0
The course is designed to provide students with an understanding of the theory and techniques of coaching soccer.

PEMJ 310
COACHING SWIMMING AND DIVING 2.0
Practical knowledge of coaching swimming and diving; coaching theory, the perfecting of skills and conditioning procedures.

PEMJ 314
WOMEN'S COMPETITIVE GYMNASTICS IN SCHOOLS 2.0
Coaching competitive gymnastics, women's gymnastics, dance in gymnastics, training methods on the four Olympic events, techniques and skill analysis.
Prerequisites: PEMJ 113, 114.

PEMJ 317
COACHING VOLLEYBALL 2.0
Advanced playing strategies and information for coaching the advanced student at high levels of competition. Philosophy of coaching, characteristics and responsibilities of a coach.

PEMJ 323
ADVANCED PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
This advanced level course integrates the knowledge of anatomy, physiology, biomechanics, nutrition, conditioning, and first aid. This course provides an understanding of the prevention, care, and rehabilitation of athletic injuries. Theoretical and practical aspects of the field will be presented through lecture and laboratory sessions in order to develop a broad background concerning the health care and medical management of athletic injuries. Athletic training is presented as a professional opportunity as well as an essential aspect in the education of physical educators and coaches.
Prerequisite: PEMJ 223.

PEMJ 330
COACHING TENNIS 2.0
The techniques and methods of coaching tennis; strategy of single and doubles play. Complete organization of a tennis program, including a review of basic strokes, drills, rules and tennis etiquette. Planning, scheduling and organization of tournaments and inter-school competition.

PEMJ 332
COACHING WRESTLING 2.0
Techniques and methods of coaching wrestling. Emphasis on developing programs, mat tactics and strategy.

PEMJ 333
COACHING TRACK AND FIELD 2.0
Integrating philosophy, psychology, principles and techniques of track and field activities with actual practice. For men and women with appropriate concentrations as well as a common core of activities.
Prerequisite: PEMJ 134.

PEMJ 340
FITNESS AND THE AGING PROCESS 3.0
The anatomic, physiologic and social changes experienced by the older adult as he/she ages. The students will learn the bases for selection of appropriate activities and techniques for communicating with this specialized population. Field experiences involving older adults in fitness settings will be included in this course.
Prerequisites: PEMJ 220, BIOL 240, 241 or permission of instructor.

PEMJ 345
AQUATIC MANAGEMENT 3.0
This course is designed to provide the student with skills and knowledge in the area of aquatic management which will enable them to develop appropriate programs at swim clubs, community pools, camps and health clubs.

PEMJ 351
ADAPTED PHYSICAL EDUCATION 3.0
This is a lecture and practicum course covering the introductory techniques for conducting a physical education program to meet the needs of the developmentally disabled. Each student is required to spend a minimum of 15 hours of laboratory experience in schools, agencies, and/or institutions.
Prerequisites: BIOL 240, 241.

PEMJ 352
DEVELOPMENT AND PHILOSOPHY OF PHYSICAL EDUCATION 3.0
The history and development of physical education are traced from primitive to modern times. Influences which contributed to the modern philosophy of physical education are identified. May not be taken until junior year.

PEMJ 353
PSYCHOLOGY OF SPORT 3.0
Psychology related to physical activity on emotional, attitudinal and personality aspects, motivation, cultural and sociological problems of athletes, spectator response and deportment.

PEMJ 355
MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION 3.0
Tests and measurements specifically concerned with the area of physical education. Tests and measurements as tools for better teaching as well as for research. Open to juniors and seniors only.

PEMJ 356
MANAGEMENT OF PHYSICAL EDUCATION ATHLETIC AND FITNESS PROGRAMS 3.0
This course reviews comprehensive information about the administration and management of physical education, athletics and fitness programs. Current trends, practices and support services essential to the development of these programs will be examined. Not for freshmen.

PEMJ 357
TEACHING OF PHYSICAL EDUCATION 4.0
Methods of teaching and principles of learnings as they apply to growth, development and movement. Urban, inner city, suburban and rural situations and conditions related to learning facilities and equipment.
Prerequisites: Acceptance into Teacher Education.

PEMJ 362
PHYSICAL ACTIVITIES FOR THE DEVELOPMENTALLY DISABLED AND MENTALLY ILL 3.0
The development of physical activities designed to meet the unique needs of the mentally retarded, emotionally disturbed and learning disabled. Etiologies, legislation, motivational procedures and programming strategies will be reviewed. Field work is required.

PEMJ 363
PHYSICAL ACTIVITIES FOR THE SENSORY AND PHYSICALLY DISABLED 3.0
The development of awareness of the architectural barriers physical and social difficulties encountered by the sensory and physically disabled, the student will have the opportunity to develop physical activities designed to meet the unique needs of the visually, auditorily and orthopedically disabled, etiologies, legislation, motivational procedures and programming strategies will be reviewed, each student is required to complete a practicum.

PEMJ 375
FOUNDATIONS AND PRACTICES IN CARDIAC REHABILITATION 3.0
Knowledge and skills related to cardiac rehabilitation which is necessary for working with post-cardiac individuals in the post-hospital continuing exercise program. Students will be expected to demonstrate a high level of competence in all aspects of the course. Field work required.
Prerequisites: PEMJ 220, BIOL 240, 241, instructors' permission.

PEMJ 376
SEMINAR IN FITNESS PROGRAMMING 2.0
Specifically designed for the student in the adult fitness concentration to bring together a series of background topics into a seminar experience. The course will discuss practitioner roles, the establishment of criteria for the evaluation of fitness programs in a variety of settings, individual factors which influence participation adherence, and practical considerations which apply to fitness programming.

PEMJ 379
INTERNSHIP IN ATHLETIC TRAINING 4.0
Designed for the student interested in becoming certified as a trainee (NATA). Through an internship program the student will be provided the opportunity to apply the background information obtained in both basic and advanced prevention and care of athletic injuries course. The proposed course will also meet the NATA requirement for field experience. This course available to students not completing the student teacher experience only.
Prerequisites: PEMJ 150, 223, 323.

PEMJ 380
INTERNSHIP IN PHYSICAL EDUCATION 8.0
Intended only for those students who have tentatively identified a career goal. Experience selected will be closely related to the career aspiration of the student. On-the-job experiences in the areas of organizations and agencies where professional competency will be utilized as related to the career goals of the student. Available to students not completing the student-teacher sequence only.
Prerequisite: Minimum of 105 s.h. completed, 2.25 G.P.A.

PEMJ 381
COOPERATIVE EDUCATION IN PHYSICAL EDUCATION 4.0
Integrates academic study with supervised employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a department faculty coordinator is responsible for completing the terms of a predetermined learning contract. Available to students no completing the student-teacher sequence only.
Prerequisites: 60 s.h. completed, 2.45 G.P.A., 2.67 major G.P.A. or permission of instructor.

PEMJ 399
INDEPENDENT STUDY IN PHYSICAL EDUCATION 1.0-6.0
Provides an opportunity to pursue independent study in one of the specialized areas of physical education.

PEMJ 444
SEMINAR IN PHYSICAL EDUCATION 1.0
This course permits physical education student teachers an opportunity to discuss and evaluate the experiences they have in a physical education setting while student teaching.
Prerequisites: Accepted into teacher education program, and enrolled concurrently in CURR 411, supervised student teaching.

PEMJ 492
SELECTED TOPICS IN PHYSICAL EDUCATION 1.0-3.0
A theoretical and practical in-depth study in a current aspect of physical education. Topics will be determined prior to course offering and publicized.

Recreation and Leisure Studies Courses

PERL 105
OUTDOOR RECREATION SKILLS 2.0
Introduction to a wide variety of outdoor recreation and leisure pursuits with emphasis upon skill acquisition. Field visits required.

PERL 107
WINTER OUTDOOR RECREATION SKILLS 2.0
Taught at the New Jersey School of Conservation. Emphasizes the development of outdoor recreation skills by direct participation in various activities including ski touring, snowshoeing, ice fishing, curling, and winter survival. If weather is unseasonably mild, substitutes such as rock climbing, orienteering and backpacking will be taught. A special fee includes room, board, and equipment use. Approval of department chairperson.

PERL 109
SPRING OUTDOOR RECREATION SKILLS 2.0
Field application of the basic skills learned in the fall and new skills based on water resources. Students will be in residence at the New Jersey School of Conservation for 5 days during the regular spring recess. A special fee includes room, board and equipment use.
Prerequisite: Approval of department chairperson.

PERL 123
LEADERSHIP TECHNIQUES IN RECREATION AND LEISURE SERVICES 3.0
Theory, principles, techniques, and processes of the different types of leadership styles in a variety of recreation programs and leisure services. Application of the different styles and techniques through the planning, delivery, and evaluation of appropriate activities.

PERL 124
INTRODUCTION TO RECREATION AND LEISURE SERVICES 2.0
An orientation course to the broad spectrum of services which are provided to society by recreation and leisure services practitioners. The course also presents the career opportunities available in the field.

PERL 225
PROGRAM PLANNING IN RECREATION AND LEISURE 3.0
Theory, principles and practices of systematic program planning. Field observation and participation is required.
Prerequisite: PERL 123 and 124.

PERL 228
RECREATION FOR SPECIAL POPULATIONS 3.0
Adaptation of recreation and leisure services for persons with special needs and limitations, role of institutions and community agencies, specialized leadership techniques, modification requirements for areas, facilities equipment, and supplies.
Prerequisite: PERL 225.

PERL 271
CLINICAL EXPERIENCES IN THERAPEUTIC RECREATION 1.0
Individualized student placements in clinical settings provide opportunity to gain firsthand knowledge of therapeutic recreation and prescriptive programming services. May be repeated for credit to a total of 3 semester hours.
Prerequisites: BIOL 240, 241.

PERL 285
FIELD EXPERIENCE IN RECREATIONS AND PARKS 2.0
Supervised on-site laboratory experience in an approved recreation or leisure service area. Seminar meetings and individual conferences required.
Prerequisite: Approval of department chairperson.

PERL 299
SELECTED TOPICS-RECREATION AND PARK ADMINISTRATION 1.0
Professional inquiry into the study of a selected issue, problem or trend in recreation and park administration.
Prerequisite: Approval of department chairperson.

PERL 311
SPECIAL EVENTS PLANNING AND PROMOTION 3.0
This course is a course in advanced recreation and functionally related services programming. It includes the analysis, planning and execution of special events and related activities involving large numbers of people and diverse publics. Topics include event philosophy and planning, technical and legal consideration, crowd management and promotion. Field trips required.
Prerequisite: PERL 225.

PERL 312
BUDGET AND FINANCE IN RECREATION AND PARKS 3.0
Study of the various sources and methods of financing, including exploration of the philosophy and mechanics of the budgetary process in recreation and park systems.
Prerequisite: PERL 225.

PERL 322
HISTORY AND PHILOSOPHY OF LEISURE, PLAY AND RECREATION 3.0
A study and analysis of the philosophical concepts concerning leisure, play and recreation, including the historical milieu that supports past theories, current thoughts and practices, and the philosophical directions for the future of recreation and leisure services.

PERL 334
RESEARCH METHODS IN RECREATION AND LEISURE SERVICES 4.0
An introduction to the various techniques and methods used in research, the appropriate application of research methods, statistical methodology and other analytical tools for investigating problems in recreation and park professions.
Prerequisites: PERL 124, 225.

PERL 340
INTRODUCTION TO COMMERCIAL RECREATION AND TOURISM 3.0
Analysis of the commercial recreation and tourism industries. Includes a study of participant profiles, types of commercial and resort enterprises, national tourism studies. Employment opportunities trends and issues. Field visits required.
Prerequisite: PERL 124.

PERL 341
INTRODUCTION TO THE HOSPITALITY INDUSTRY 3.0
The scope and nature of the industry. An orientation to career opportunities and education for the hotel and hospitality industry.
Prerequisite: PERL 124.

PERL 342
DELIVERY OF COMMERCIAL RECREATION AND TOURISM SERVICES 3.0
Methods and procedures for organizing and implementing commercial recreation and tourism enterprises. Includes an in-depth analysis of delivery systems, economic and marketing trends and promotion. A class research project is part of the course requirements. Field visits required.
Prerequisite: PERL 340.

PERL 343
DELIVERY OF HOTEL/RESORT RELATED SERVICES 3.0
The analysis and examination of selected business operations which are of importance to the overall success of hotels/resorts, including travel agencies, tour companies, gift shops, restaurants, and recreational facilities.
Prerequisite: PERL 341.

PERL 346
TOURISM AND COMMERCIAL RECREATION, PLANNING, DEVELOPMENT AND ANALYSIS 3.0
Skills and techniques used in the planning, development, and analysis of tourism and commercial recreation facilities. Students will be required to complete a major research project.
Prerequisites: PERL 340, or 360, and 334.

PERL 350
DESIGN, MAINTENANCE AND UTILIZATION OF RECREATION, TOURISM AND PARK FACILITIES 3.0
This course familiarizes the student with the design, planning, maintenance and utilization of recreation, tourism and park facilities. An exploration of the preservation of open space and its relationship to recreation is also included. Field trips are required.

PERL 352
MARKETING TECHNIQUES IN RECREATION AND LEISURE SERVICES 3.0
Methods and techniques of communications to interpret, motivate, promote and publicize recreation and leisure services. Human and technical procedures utilized in recreation and leisure delivery systems.
Prerequisites: PERL 225, 322.

PERL 354
MARKETING HOTELS, RESORTS AND RELATED SERVICES 3.0
Analysis of advertising, sales promotion, personal selling, and the application of marketing research to hotels, resorts and related operations.
Prerequisites: PERL 225, 311, 334, 341.

PERL 355
DEVELOPMENT AND MANAGEMENT OF HOTELS/RESORTS 3.0
Comprehensive information about the development and management of and the specific skills necessary in the operation of hotels/resorts.

PERL 361
IMPLEMENTATION OF OUTDOOR RECREATION PROGRAMS AND INTERPRETIVE SERVICES 3.0
Organization and supervisory considerations in the provision of outdoor recreation programs. Emphasis on outdoor living skills, physical and mental fitness, and environmental protection. Topics include program management of outdoor areas, outdoor recreation program standards, safety and interpretation. Field visits required.
Prerequisite: PERL 225.

PERL 365
TECHNICAL DESIGN OF RECREATION AND PARK AREAS AND FACILITIES 3.0
The basic considerations in the functional and aesthetic components in recreation and park design. Includes the pre-design and development phases of recreation and park areas and facilities. Circulation, lighting, water systems, health and safety, and performance controls on sensitive lands analyzed. Field visits required.
Prerequisite: PERL 360.

PERL 367
MANAGEMENT AND MAINTENANCE OF RECREATION AND PARK AREAS AND FACILITIES 3.0
An investigation of the methods associated with the proper management and maintenance techniques of a variety of recreation and park areas and facilities. Includes park protection, vandalism, personnel training, maintenance operations, and specialized areas. Field visits required.
Prerequisite: PERL 360.

PERL 370
INTRODUCTION TO THERAPEUTIC RECREATION 3.0
An introduction to therapeutic recreation as a profession and service in clinical and community settings. The course includes an analysis of current issues and trends in the field, employment opportunities, and the concept of professionalism.

PERL 372
RECREATION AND REHABILITATION SERVICES 3.0
Study of roles and interrelationships of professional personnel in the rehabilitation services in medical, correctional, and community settings. The team approach to rehabilitation services will be emphasized. Field visits required.
Prerequisite: PERL 228.

PERL 377
PROGRAMMING AND SUPERVISION IN THERAPEUTIC RECREATION 3.0
This course includes assessment, planning and implementation of appropriate services and department programs and evaluation strategies. The course addresses basic program and personnel supervision of therapeutic recreation.
Prerequisites: BIOL 241 and PERL 228.

PERL 381
COOPERATIVE EDUCATION IN RECREATION AND PARKS 4.0-8.0
Integration of academic study with supervised employment outside the formal classroom environment. The cooperative education experience is supervised by a faculty member and an agency/organization supervisor.
Prerequisites: PERL 225, department chairperson's approval.

PERL 390
INDEPENDENT STUDY IN RECREATION, PARKS AND LEISURE 1.0-3.0
Independent study in area of student need and/or interest pertinent to recreation, parks and leisure. Interested students must present detailed written proposal to the department chairman for approval and determination of credit allocation. Sophomore, junior, senior standing.

PERL 430
MANAGEMENT OF RECREATION AND LEISURE SERVICES 4.0
Managerial techniques and methods pertaining to the delivery of recreation and leisure services. Topics include leadership and problem solving skills, organizational structure, personnel management and legal issues.
Prerequisite: PERL 225, majors only.

PERL 437
SENIOR SEMINAR 2.0
Examination and analysis of student preparation for field work and entry into the recreation and park profession. Formal application and placement of field work students.
Prerequisites: Majors only, minimum 2.45 cumulative grade point average at MSC

PERL 489
INTERNSHIP 12.0
Directed full-time professional supervisory experiences in an approved recreation, parks or leisure delivery system. Emphasis on individual development in program planning, conduct and evaluation, budget and finance, legal aspects, community and public relations. For recreation and leisure studies majors only.
Prerequisites: 2.45 GPA at MSC, PERL 437 and department chairperson's approval.

Physics and Geoscience

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: Richard Hodson

The Physics-Geoscience department consists of two areas of emphasis, each having its own expertise, majors, and programs within one administrative structure. The department offers separate major programs in geoscience and physics, plus teacher certification. Minors offered in either physics or geoscience are especially useful to students specializing in computer science or applied mathematics.

Part of the Physics-Geoscience department tradition is that a professor works with classes in the laboratory. This, plus a favorable student-faculty ratio, allows personal contact between student and professor. One is free to consult professors about course material for guidance or just to exchange ideas.

All programs are designed to provide substantial well-rounded preparation for students planning to enter graduate school, research, industry, or teaching.

Students entering this department should have an exposure to biology, chemistry and physics, plus three years of college preparatory mathematics. The physics major should have four years of college preparatory mathematics.

Geoscience Major

Required Courses

			Semester Hours
GEOS	112	Physical Geology	4
GEOS	114	Historical Geology	4
GEOS	431	Invertebrate Paleobiology	4
GEOS	434	Stratigraphy	4
GEOS	443	Mineralogy	4
GEOS	444	Petrology	4
GEOS	472	Structural Geology	3

Collateral Courses

CHEM 120, 121 General Chemistry I, II ..... 4 ea.
Select two of the following in mathematics:
MATH 115 Precalculus Math 3
MATH 116 Calculus A
OR
MATH 122 Calculus I 4
MATH 221 Calculus II 4
Select one of the following sequences in physics:
PHYS 191, 192 General Physics I, II ..... 4 ea.
PHYS 193, 194 College Physics I, II ..... 4 ea.
Recommended in addition to the above:
CMPT 183 Foundation of Computer Science I 3
MATH 109 Statistics 3

Electives (Departmental)

The geoscience major is required to take 14 semester hours in geoscience major electives applying the following guidelines 14
Group I—One of the following courses:
PHYS 280 Astronomy 4
GEOS 360 Oceanography 3
GEOS 457 Meteorology 4
Group II—One of the following courses:
GEOS 250 Map Reading and Cartography 3
GEOS 310 Economic Geology 3
GEOS 410 Geology of New Jersey 3

Geoscience Minor

Required Courses

Semester Hours
GEOS 112 Physical Geology 4
GEOS 114 Historical Geology 4
Select one of the following two sequences:
GEOS 431 Invertebrate Paleobiology 4
GEOS 434 Stratigraphy 4
OR
GEOS 443 Mineralogy 4
GEOS 444 Petrology 4

Electives (Departmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Physics Major

Required Courses

Semester Hours
PHYS 191, 192 General Physics I, II ..... 4 ea.
PHYS 210 Mechanics 4
PHYS 240 Electricity and Magnetism 4
PHYS 350 Optics 4
PHYS 460 Modern Physics 4

Collateral Courses

CHEM 120, 121 General Chemistry I, II ..... 4 ea.
CMPT 183 Foundations of Computer Science I 3
MATH 122 Calculus I 4
MATH 221 Calculus II 4
MATH 222 Calculus III 4
MATH 420 Differential Equations 3

Electives (Departmental)

Select 14 semester hours from the appropriate list to be obtained from the department 14

Physics Minor

Required Courses

PHYS 191, 192 General Physics I, II ..... 4 ea.
PHYS 240 Electricity and Magnetism 4
Plus either Option A or Option B:
Option A
PHYS 210 Mechanics 4
PHYS Physics elective 3
Option B
Select two
PHYS 242 Circuit Theory 3
PHYS 245 Electronics and Digital Techniques 4
PHYS 247 Microprocessors and Their Applications 4
Total 19

Teacher Certification

Students who successfully complete a departmental major program, the teacher certification professional sequence, one biology course (from BIOL 121, 130, or 140) and PHED 401 (The Teaching of Science in Secondary Schools) will qualify for the Comprehensive Science Teaching Certificate. In addition, geoscience majors will qualify for the Earth Science Teaching Certificate, while physics majors will qualify for the Physical Science Teaching Certificate. Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Second Teaching Field in Geoscience

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Required Courses

Semester Hours
PHYS 191 General Physics I 4
GEOS 112 Physical Geology 4
GEOS 114 Historical Geology 4
GEOS 457 Meteorology 4
PHYS 280 Astronomy 4
GEOS 360 Oceanography 3
GEOS 431 Invertebrate Paleobiology 4
CHEM 120 General Chemistry I 4
PHED 401 The Teaching of Science in Secondary Schools 4

Second Teaching Field in Physical Science

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Students majoring in a field other than physics and who wish certification in physics may take a physical science program. In addition to the certification program in their major, they must take the following:

PHYS 191, 192 General Physics I, II ..... 4 ea.
Physics Elective 4
CHEM 120, 121 General Chemistry I, II ..... 4 ea.
CHEM 230 Organic Chemistry I 3
Two courses representing two areas from: Astronomy, Geology, Meteorology, Oceanography 8
PHED 401 The Teaching of Science in Secondary Schools 4

Courses of Instruction

GEGN 100
CONCEPTS IN SCIENCE 4.0
This is a one-semester physical science course with laboratory designed for those students not majoring in science areas. This course will introduce the student to methods of science while teaching some principles of physical science and some of their applications. Topics discussed include: energy and motion; heat, energy and solar heating; sound and noise; light, lenses and fiber optics. (3 hr lecture, 2 hr laboratory). Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

GEGN 104
HISTORY OF SCIENCE 3.0
The historical and philosophical development of science traced from the ancient Egyptians to the present. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 105
SCIENCE OF SOUND 4.0
The physical principles of acoustics applied to the production of music and speech. Architectural acoustics and electronic sound reproduction. Level suitable for non-science majors. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

GEGN 106
SCIENCE AND SOCIETY 3.0
This is a one semester course for non-science majors designed to provide a knowledge of some of the principles of physical science and to indicate how they are related to society. Formal laboratory is not included in the course. Topics discussed vary but may include such areas as: science, a human activity; man and energy; radiation and man; electricity and man; nuclear power and man; and others. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 107
PLANET EARTH 4.0
An introduction to the physical characteristics of planet earth. Utilizing satellite information, aerial photographs and various types of maps and charts, this course provides background for an understanding of the basic interrelationships of the earth's atmosphere, lithosphere and hydrosphere. The human impact on earth systems is also developed and maintained in perspective. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

GEGN 108
PRINCIPLES OF GEOLOGY 3.0
Geologic materials and processes. Origin and development of the earth throughout geologic time. Evolution of life as interpreted through the study of fossils. Not open to geoscience majors or to those who have taken Physical Geology. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 110
NATURAL DISASTERS 3.0
The study of natural disasters such as volcanic activity, earthquakes and hurricanes: the causes, effects and means of predicting, preventing and minimizing the effects of disasters will be discussed. The relationships between man and his sometimes hostile habitat will be included. Not open to geoscience majors. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 157
UNDERSTANDING THE WEATHER 3.0
This course is designed to examine the earth's weather through lectures, demonstrations, observations, and recording of meteorological phenomena. Major emphasis is placed on thermodynamic processes within the atmosphere as they affect primary pressure/wind patterns, synoptic meteorology, and local weather characteristics. Attention is directed toward the physical processes affecting temperature pressure, wind, humidity, cloudiness, and visibility in order to understand the main characteristics of weather. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only

GEGN 162
GENERAL OCEANOGRAPHY 3.0
A general study of the oceans and methods of modern oceanography including the physical, chemical, geological, and biological aspects of the oceans and their interrelationships. This course is designed for non-science majors. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 180
DESCRIPTIVE ASTRONOMY 3.0
For the general student. A discussion of our place in the universe from ancient ideas to modern data on the moon, planets, comets, stars, galaxies and quasars. The formation and evolution of planets, stars, black holes and the universe as a whole reveal our place in time. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 199
THE SCIENCE IN SCIENCE FICTION 3.0
An exploration for the general student of some of the scientific and mathematical principles which underlie the speculative fiction of this century. Topics to be considered include astronomy, causality, chemistry, cosmology, computers, entropy, genetics, relativity and modern mathematics.

GEGN 204
SELECTED TOPICS IN CONTEMPORARY HISTORY OF SCIENCE 3.0
A study which will consider the most important discoveries of the twentieth century that are changing our world and the events leading to the inventions. These concepts will be related to twentieth century idealism, materialism, and ideas of progress. No prior knowledge of science or mathematics is assumed and the course could be used as a sequential to GEGN 104 History of Science.

GEGN 322
CONSUMER SCIENCE 3.0
Basic scientific principles in testing and evaluating consumer products. Field trips to local cooperating industries and testing agencies to evaluate processes and products. Not open to freshmen and sophomores.

GEOS 112
PHYSICAL GEOLOGY 4.0
Materials of the earth; landforms and structures; the processes and agents responsible for their formation and modification. Modern tectonic concepts. Topographic and geologic maps. Required field trips. Not open to students who have had Principles of Geology. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

GEOS 114
HISTORICAL GEOLOGY 4.0
Geological history of the earth; the evolution of North America in terms of the changing geography, climate, and plant and animal life as interpreted from the rock and fossil record. Required field trips. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: GEOS 112.

GEOS 125
EARTH AND THE ENVIRONMENT 4.0
The study of the natural processes of the earth and the effects of human activities on the environment. Earth materials, processes and systems, and the engineering properties of natural materials will be discussed, as well as pollution of soil, water and air. Not open to those who have had Planet Earth, Principles of Geology or Physical Geology. Meets the General Education Requirement - Natural/Physical Sciences, Laboratory or Non-laboratory Science.

GEOS 250
MAP READING AND CARTOGRAPHY 3.0
This is the basic course in cartography. Students master the use of cartographic instruments and attempt to understand the principles underlying the common types of map projections. (2 hr lecture, 2 hr laboratory)

GEOS 251
AERIAL PHOTOGRAPHY INTERPRETATION 3.0
Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hours lecture and 2 hours laboratory.)

GEOS 252
HYDROLOGY 3.0
Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. Also listed as EUGS 252 Hydrology.

GEOS 254
GEOMORPHOLOGY AND CLIMATOLOGY OF NORTH AMERICA 3.0
Major controls of climate and the landforms of North America are analyzed in order to gain an understanding of how the continent compares and is related to the rest of the world. The basis and distinct characteristics of the subdivisions of North America are examined in order to bring out contrasts and unique features within the continent.
Prerequisites: GEOS 107 or 108 or 457 or instructor's permission.

GEOS 352
FLUVIAL GEOGRAPHY 3.0
A detailed study of streams and rivers emphasizing processes causing variations in size and shape. The course analyses the morphology of stream channels. The course is quantitative and stresses processes. Also listed as EUGS 352 Fluvial Geography.
Prerequisites: GEGN 107, EUGS 100.

GEOS 360
OCEANOGRAPHY 3.0
Study of the physical and chemical properties of sea water, oceanic circulation, waves and tides, and estuarine and shoreline processes.
Prerequisite: Course in similar field or instructor's permission.

GEOS 410
THE GEOLOGY OF NEW JERSEY 3.0
The physical features of New Jersey and their origin, geologic history, stratigraphy, paleobiology, mineralogy, structural geology, economic geology. Required field trips.
Prerequisites: GEOS 112 or GEGN 108 and at least 8 other credits in geology.

GEOS 431
INVERTEBRATE PALEOBIOLOGY 4.0
Invertebrate fossils-their classification, morphology, evolution, stratigraphic distribution and paleoecology. Required field trips.
Prerequisites: GEOS 114, BIOL 130 or instructor's permission.

GEOS 434
STRATIGRAPHY 4.0
Stratigraphic principles and their application. Case studies of selected regions. Local stratigraphy interpreted through field studies.
Prerequisite: GEOS 431 or instructor's permission.

GEOS 437
SEDIMENTOLOGY 4.0
Geological processes and agents which form, transport, deposit, consolidate and alter sediments. Interpretation of the resultant sedimentary rocks. Laboratory work on the texture, mineralogy and mass properties of sedementary particles. Required field trips. (Not offered every year.) (3 hours lecture, 2 hours laboratory.)
Prerequisite: GEOS 112 or instructor's permission.

GEOS 443
MINERALOGY 4.0
Crystallography, internal structure, origin, occurrence, and properties of minerals, laboratory study of common minerals. Required field trips.
Prerequisites: GEOS 112, CHEM 121.

GEOS 444
PETROLOGY 4.0
Description, identification, classification, origin and occurrence of sedimentary, igneous and metamorphic rocks. Laboratory study of the common rocks. Required field trips.
Prerequisite: GEOS 443, or instructor's permission.

GEOS 452
GEOHYDROLOGY 3.0
The study of ground-water with particular emphasis given to its mode of migration, chemistry and relation to the geographic environment. Particular attention is given to Darcy's Law, soil porosity, soil permeability and the ability to withdraw water for human consumption. Water pollutants and salt water incursions are investigated. Spatial distributions are analyzed and the processes examined. Also listed under Environmental, Urban and Geographic Studies as EUGS 452.
Prerequisite: GEOS 252 or instructor's permission.

GEOS 457
METEOROLOGY 4.0
The characteristics of the earth's atmosphere. Meteorological instruments, principles of atmospheric physics, weather patterns and measurements of changes within the atmosphere.
Prerequisite: Introductory course in geoscience.

GEOS 472
STRUCTURAL GEOLOGY 3.0
Recognition and interpretation of primary and tectonic rock structures. Laboratory work emphasizes the analysis of faults, joints, folds and foliation. Required field trips.
Prerequisite: Geoscience major sequence including GEOS 114, 434, 444 and MATH 122.

GEOS 480
FIELD STUDIES IN GEOSCIENCE 4.0
Use of geologic, meteorologic and oceanographic instruments in field investigations, interpretation of observations and writing a field report. Required field trips.
Prerequisites: Geoscience major sequence, GEOS 472.

GEOS 495
INDEPENDENT STUDY IN GEOSCIENCE 1.0-4.0
An opportunity for the qualified student to do library and/or laboratory investigation in a field of science of his/her choice under the guidance of a faculty member. The course is conducted exclusively by scheduled individual conferences and reports. Offered on demand; majors only.

PHED 401
THE TEACHING OF SCIENCE IN SECONDARY SCHOOLS 4.0
Considered are the objectives, curriculum, planning, instructional strategies appropriate to science, materials, methods of evaluation, health safety and legal responsibilities in the secondary science program. The use of computers in the science instructional program will also be emphasized.

PHED 460
MARINE SCIENCE EDUCATION 2.0
Selected field experiences and laboratory methods utilized to develop resources from the marine environment to be used in teaching the various disciplines. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: Undergraduate science major sequence including a 400-level oceanography course and a science methods course, or permission of instructor.

PHMS 210
INTRODUCTION TO MARINE SCIENCES 4.0
A field-oriented lower division undergraduate course covering the principal disciplines in the marine sciences. The course is designed for the student to evaluate his interest in the marine science world. Offered at the New Jersey Marine Sciences Consortium.

PHMS 310
OCEANOGRAPHY 3.0
Study of the physical and chemical properties of sea water, oceanic circulation, waves and tides, and estuarine and shoreline processes. Offered at the New Jersey Marine Sciences Consortium.
Prerequisites: Advanced standing in physical or biological sciences

PHMS 411
PHYSICAL OCEANOGRAPHY 4.0
A survey of modern oceanography and its methods including characteristics of sea water, theories of ocean currents and, in general, applications of biological, geological, physical, meteorological and engineering sciences to the study of the oceans. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: 1 year calculus, 1 year physics or instructors permission.

PHMS 422
BIOLOGY OF MARINE PLANKTON 2.0
A study of the marine phytoplankton and zooplankton, their collection, analysis and interpretation. Their role in the ecosystem will be stressed as will be their distribution, particularly those of the near shore and estuarine environment. Field trips will be made to coastal New Jersey. Offered at the New Jersey Marine Sciences Consortium.

PHMS 450
MARINE BOTANY 4.0
An introduction to the structure, systematics, physiology and ecology of algae and metaphyta of the marine environment. Emphasis will be placed on the flora of the estuary and tidal marsh. Biology of the associated phytoplankton will be studied. Also offered at the site of New Jersey Marine Sciences Consortium.
Prerequisite: BIOL 120 or instructor's permission.

PHMS 481
COASTAL MARINE GEOLOGY 4.0
A study of the geologic processes concerned with the suprainter, and subtidal areas of the near shore environment. Field studies will emphasize the dynamics of erosion and deposition as well as general sedimentation associated with modification of barrier beaches and other land forms of the New Jersey Shoreline. Offered at the New Jersey Marine Sciences Consortium.
Prerequisite: GEOS 437.

PHMS 483
DYNAMIC BEACH PROCESSES 2.0
Study of the processes and forces involved in material transport within the beach zone. Offered at the New Jersey Marine Sciences Consortium.
Prerequisites: GEOS 360, 437 or instructor's permission.

PHMS 484
TIDAL MARSH SEDIMENTATIONS 2.0
Processes involved in sediment transport and deposition within the marsh system. Geologic history of tidal marshes. Offered at New Jersey Marine Sciences Consortium.
Prerequisites: GEOS 437, advanced standing in geoscience.

PHMS 490
FIELD METHODS IN THE MARINE SCIENCES 4.0
The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the New Jersey Marine Sciences Consortium. (2 hrs. lecture, 4 hrs. laboratory.)
Prerequisite: Senior standing in science.

PHMS 498
INDEPENDENT STUDY IN THE MARINE SCIENCES 1.0-4.0
Individual research projects will be selected under the guidance of a professor associated with the consortium. Open only to those advanced undergraduate students who have indicated a potential for original thinking. Offered at the New Jersey Marine Sciences Consortium.

PHYS 107
ELEMENTARY PHYSICS FOR HOME 3.0
A laboratory course developing basic principles in the construction, operation and performance of home instruments and utensils. Mechanical, electrical and optical properties of appliances. Plumbing, insulation and energy conservation.

PHYS 191
GENERAL PHYSICS I 4.0
This one-semester calculus-based course including laboratory is a study of the principles of physics and some applications to society's problems. Topics covered include mechanics, thermodynamics, fluids, and harmonic motion. (3 hours lecture, 2 hours laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: MATH 122 or concurrently.

PHYS 192
GENERAL PHYSICS II 4.0
Calculus-based course. Study of some principles of physics and some applications to society's problems. Topics include: wave motion, sound and noise pollution, optics, electricity, lasers, nuclear theory, radiation, nuclear reactors, waste disposal. (3 hours lecture, 2 hours laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: MATH 221 or concurrently.

PHYS 193
COLLEGE PHYSICS I 4.0
This one-semester course including laboratory is a study of the principles and applications of classical physics. Topics covered include mechanics, heat and thermodynamics, wave motion and sound, as well as societal applications of physical principles. Three lecture hours and two laboratory hours are required. Calculus is not used, but familiarity with some algebra and trigonometry is required. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

PHYS 194
COLLEGE PHYSICS II 4.0
This one-semester course including laboratory is a study of the principles and applications of classical physics, topics covered include optics, electricity and magnetism, and an introduction to modern and nuclear physics, as well as societal applications of physical principles. Three lecture hours and two laboratory hours are required. Calculus is not used, but familiarity with some algebra and trigonometry is required. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

PHYS 210
MECHANICS 4.0
Classical mechanics: Kinematics, Newton's laws, impulse and momentum, statics, work and energy, oscillations, general motion, central force motion, non-inertial frames, system of particles, methods of handling data. (3 hours lecture, 2 hours laboratory.)
Prerequisites: PHYS 191, 192, MATH 221 or concurrently.

PHYS 240
ELECTRICITY AND MAGNETISM 4.0
Basic principles of electromagnetism: Coulomb's law and general techniques in electrostatics, currents and their associated magnetic field, electromagnetic induction and magnetic properties of materials. Foundations of Maxwell's equations (without detailed solutions). Laboratory experiments. (3 hr. lecture, 2 hr. laboratory).
Prerequisites: PHYS 192, MATH 222 or concurrently.

PHYS 242
CIRCUIT THEORY 3.0
Introduces basic methods in circuit analysis and design. Topics include linear electric circuits and their response, circuit theorems, filters, Fourier analysis of different inputs and outputs, and transmission lines. (2 hr. lecture, 2 hr. laboratory).
Prerequisites: MATH 221, PHYS 192, 210 or MATH 420.

PHYS 245
ELECTRONICS AND DIGITAL CIRCUITS 4.0
An introduction to the principles of amplifiers, waveform generators, and digital circuits, with emphasis on the use of commonly available integrated circuit packages. (3 hr. lecture, 2 hr. laboratory)
Prerequisites: PHYS 240.

PHYS 247
MICROPROCESSORS AND THEIR APPLICATIONS 4.0
One semester course providing an introduction to the principles, operations and applications of microprocessors including experiment control and data manipulation. (3 hours lecture, 2 hours laboratory.)
Prerequisite: PHYS 192 or 194.

PHYS 280
ASTRONOMY 4.0
Application of physical laws to the earth as a planet; nature of the other planets; orbital motion and space flight; origin of the solar system; the birth, life and death of a star galactic structure; and cosmology. (3 hours lecture, 2 hours laboratory).
Prerequisites: PHYS 191, 192 or 193, 194, MATH 115.

PHYS 310
ADVANCED MECHANICS 3.0
Classical mechanics; transformation, oscillators, generalized motion; Lagrange's equations; Hamilton's equation; small oscillations; wave propagation. Offered alternate years.
Prerequisites: MATH 222, 420; PHYS 210.

PHYS 320
THERMODYNAMICS 3.0
Thermodynamic systems; laws of thermodynamics; entropy; kinetic theory; transport processes; statistical thermodynamics. (Offered alternate years.)
Prerequisites: MATH 222, PHYS 210 or instructor's permission.

PHYS 340
ADVANCED ELECTRICITY AND MAGNETISM 3.0
Dielectric materials; image calculations; Laplace's equation; magnetic materials and flux; A.C. networks; nonsinusoidal AC; transients and pulses; electromagnetic radiation. (Offered alternate years.)
Prerequisite: MATH 420 or instructor's permission.

PHYS 350
OPTICS 4.0
Propagation of light, optical components, instruments and photometry. Interference, diffraction and polarization with elements of spectroscopy. (Offered alternate years.)
Prerequisites: MATH 222, PHYS 240.

PHYS 377
MATHEMATICAL PHYSICS 3.0
Vector analysis, complex variables, ordinary and partial differential equations, matrices. (Not offered every year.)
Prerequisite: 2 years of physics and MATH 222.

PHYS 410
FLUID MECHANICS 3.0
The study of the mechanics of the continuous media. Topics will include: fluid statics; basic laws governing fluid systems and control volumes; viscous flows; dimensional analysis and sililitude, and potential flow.
Prerequisites: PHYS 210 and MATH 222.

PHYS 460
MODERN PHYSICS 4.0
Special relativity, kinetic theory of matter; quantization of electricity, light and energy; nuclear atom; elementary quantum mechanics and topics on solid state. (Offered alternate years.)
Prerequisites: PHYS 210, 240, MATH 222.

PHYS 462
NUCLEAR PHYSICS 4.0
Nuclear radiation; radioactive decay; detectors; nuclear spectroscopy and reactions; theories and model; fission, fusion, reactors; and application of radio isotopes. (Offered alternate years.)
Prerequisites: PHYS 210, 240, MATH 222.

PHYS 464
QUANTUM MECHANICS 3.0
Shroedinger's wave equation, its application and interpretation; Pauli exclusion principle and spectra. (Offered alternate years.)
Prerequisites: MATH 222, PHYS 460, 464.

PHYS 470
SOLID STATE PHYSICS 3.0
Properties of solid state matter are developed from the quantum mechanics of atoms and molecules. (Not offered every year.)
Prerequisites: MATH 222, PHYS 460.

PHYS 490
LITERATURE RESEARCH IN PHYSICS 2.0
Student considers topics in physics and gains facility in literature research techniques: topics in pure physics or related to physics education. Students intending to enroll in laboratory research in physics should use PHYS 490 to provide the literature research related to his/her laboratory problem. (Not offered every year.)
Prerequisite: At least 16 credit hours of physics beyond General Physics.

PHYS 495
LABORATORY RESEARCH IN PHYSICS 1.0
Solution of a laboratory problem; research in pure physics or in physics education; written report required. (Not offered every year.)
Prerequisite: At least 16 credit hours of physics beyond General Physics

Political Science

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: William Batkay

Political Science is a branch of the social sciences concerned with the theory and practice of government and politics. There are six areas of interest a student may pursue: Political Thought and Philosophy, American Politics, Comparative Politics, International Relations, Public Administration, and Law.

The department also provides a Public Administration minor in order to give those seeking employment in state or local government the necessary background. It is open to all students.

Graduates in the political science major receive a Bachelor of Arts degree.

Political Science Major

Required Courses

			Semester Hours
POLS	100	Introduction to Politics	3
POLS	101	American Government and Politics	3
POLS	201	Comparative Politics	3
POLS	202	International Relations	3
POLS	408	Development of Political Thought to Machiavelli	3

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department 15

Political Science Minor

			Semester Hours
Core Course Requirement			
POLS	100	Introduction to Politics	3
Additional Required Courses			9
(One course must be selected from three of the following areas):			
American Government			
POLS	101	American Government and Politics	3
POLS	304	State and Local Government	3
Comparative Politics			
POLS	201	Comparative Politics	3
POLS	203	Politics of Development and Modernization	3
International Relations			
POLS	202	International Relations	3
POLS	203	International Organizations	3
Political Theory			
POLS	307	American Political Thought	3
POLS	408	Development of Political Thought to Machiavelli	3
Political Science Electives			
Minimum credits required for the Political Science Minor			**18**

Public Administration Minor

Required Courses

			Semester Hours
POLS	102	Institutions of American Government	3
POLS	205	Introduction to Public Administration	3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

POLS 100
INTRODUCTION TO POLITICS 3.0
This course analyzes politics from the four main vantage points of the discipline of political science, that is, political theory, comparative politics, international relations and American government. Of special concern is the U.S. Constitution, its classical and English roots, and its development to the present. This course is required for political science majors. Meets the General Education Requirement - Social Science, Topic Course.

POLS 101
AMERICAN GOVERNMENT AND POLITICS 3.0
This course will introduce students to the basic institutions and processes of American politics, and will do so, in part, through a focus on current policy issues.

POLS 201
COMPARATIVE POLITICS 3.0
Constitutional principles, governmental institutions and political processes of selected contemporary states. Meets the General Education Requirement - Social Science, Survey Course.

POLS 202
INTERNATIONAL RELATIONS 3.0
Recent and contemporary world politics and the foreign relations and policies of selected states.

POLS 203
INTERNATIONAL ORGANIZATIONS 3.0
Political and administrative institutions of international government with emphasis upon the United Nations and selected regional organizations.

POLS 204
GOVERNMENT AND POLITICS OF AFRICA 3.0
The salient characteristics of government and politics in the independent Black African states, and the way these impinge on developmental efforts therein, are examined. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

POLS 205
INTRODUCTION TO PUBLIC ADMINISTRATION 3.0
Literature and developments in the field of public administration; the federal bureaucracy in the policymaking process.
Prerequisite: POLS 100 or 102 or 103 or instructor's permission.

POLS 206
GOVERNMENT AND POLITICS OF CHINA-JAPAN 3.0
Governmental and political development, institutions, and practices in contemporary China-Japan. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

POLS 301
AMERICAN PARTY SYSTEM 3.0
Organization, function and practice of political parties in the U.S.; campaign functions, membership problems, political finance and policy formation practices.
Prerequisite: POLS 100 or 102 or 103 or permission of instructor.

POLS 302
PUBLIC OPINION AND PRESSURE GROUPS 3.0
The nature and development of public opinion and pressure groups in the United States and their influence on public policy and political process.
Prerequisites: POLS 100 or 102 or 103 or instructor's permission

POLS 303
POLITICS OF DEVELOPMENT AND MODERNIZATION 3.0
The major contemporary schools of political modernization and development theory; inter-relationship among political, social and economic variables.
Prerequisite: POLS 201.

POLS 304
STATE AND LOCAL GOVERNMENT 3.0
State political systems, including their administrative and local sub-systems; federal-state and inter-state relations; the political institutions of New Jersey.
Prerequisite: POLS 100 or 102 or 103 or instructor's permission.

POLS 306
CAMPAIGN POLITICS 3.0
This course is taught in election years and provides the student with field experience at the local precinct or party level.
Prerequisite: POLS 100 or 102 or 103.

POLS 307
AMERICAN POLITICAL THOUGHT 3.0
The development of American ideas covering political authority from Hamilton, Madison and Marshall to the present.
Prerequisite: POLS 100 or 102 or 103 or instructor's permission.

POLS 308
ETHNIC POLITICS IN AMERICA 3.0
The political behavior of American ethnic groups from the Puritans to the Puerto Ricans. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: POLS 100 or 102 or 103 or instructor's permission.

POLS 309
URBAN POLITICS 3.0
The policies, processes, inter-relationships and organization of governments in heavily-populated areas of the United States.

POLS 310
PUBLIC PERSONNEL ADMINISTRATION 3.0
The problems and processes in the U.S. of public personnel administration at the state and local level.
Prerequisites: POLS 102, 205 or instructor's permission.

POLS 311
GOVERNMENTAL BUDGETING 3.0
The budgetary process in governmental agencies from the perspective of political demands and influences.
Prerequisites: POLS 102, 205.

POLS 312
BLACK POLITICS IN AMERICA 3.0
Black participation in the American political system from the Colonial period to the present. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

POLS 315
URBAN ADMINISTRATION 3.0
Problems and policy-making in the larger urban or metropolitan complexes.
Prerequisites: POLS 102, 205 or instructor's permission

POLS 316
CONTEMPORARY WESTERN EUROPEAN POLITICS 3.0
Government and politics of Great Britain, France, West Germany and Italy. Institutions, parties, ideologies and interest groups.

POLS 320
LAW IN SOCIETY CIVIL LAW 3.0
This course will examine the American civil legal system as it affects a variety of our social institutions.

POLS 321
LAW IN SOCIETY: CRIMINAL LAW 3.0
Introduces the student to institutions, processes, and social functions of criminal law.

POLS 322
AMERICAN CONSTITUTIONAL LAW:
THE FEDERAL SYSTEM 3.0
Interpretation of Supreme Court decisions in the areas of the distribution of power within the national government and between the national government and the states.
Prerequisite: POLS 102.

POLS 323
AMERICAN CONSTITUTIONAL LAW:
CIVIL RIGHTS AND LIBERTIES 3.0
The development of the Constitution and the Supreme Court of the United States illustrated through reference to court opinions in civil rights and liberties.

POLS 324
AMERICAN PUBLIC POLICY 3.0
A study of the methods used to analyze public policy and an examination of current public policy issues. Special attention is given to the use of comparative analysis in analyzing American public policies.

POLS 330
AMERICAN FOREIGN POLICY 3.0
A consideration and analysis of the goals that the nation's foreign policy officials seek to attain abroad, the values that give rise to those objectives, and the means or instruments through which they are pursued.
Prerequisite: POLS 202.

POLS 404
GOVERNMENT AND POLITICS OF INDIA AND SOUTH ASIA 3.0
The political experiences and institutions of the Indian subcontinent since 1947: The Republic of India, Pakistan, Ceylon and Bangladesh. Meets the Minorities Culture Requirement.
Prerequisite: POLS 201 or instructor's permission.

POLS 405
GOVERNMENT AND POLITICS OF LATIN-AMERICA 3.0
Governmental and political development, organization and practices in the states of Middle America and South America. Meets the Minorities Culture Requirement.
Prerequisite: POLS 201 or instructor's permission.

POLS 406
GOVERNMENT AND POLITICS OF THE MIDDLE EAST 3.0
Government and politics in the Arab states, Turkey, Israel and Iran.
Prerequisite: POLS 201 or instructor's permission.

POLS 407
GOVERNMENT AND POLITICS OF U.S.S.R. 3.0
The political and institutional organizations of the Soviet Union; contemporary political issues; party and governmental structures.
Prerequisites: POLS 201 or instructor's permission.

POLS 408
DEVELOPMENT OF POLITICAL THOUGHT TO
MACHIAVELLI 3.0
Selected major political philosophies from Plato and Aristotle, up to, but not including, Machiavelli.

POLS 409
MODERN POLITICAL THOUGHT 3.0
Selected political philosophers from Machiavelli to the present.

POLS 410
DIRECTED STUDY 3.0-6.0
Juniors and seniors may elect three to six credits of independent study under the direction of a member of the Political Science staff.

POLS 412
GOVERNMENT AND POLITICS OF COMMUNIST EAST
EUROPE 3.0
The political and governmental organizations of the communist countries of eastern and central Europe (exclusive of the U.S.S.R.); institutions, practices and ideologies including inter-regional relations.
Prerequisite: POLS 201 or instructor's permission.

POLS 416
SELECTED TOPICS IN POLITICAL SCIENCE 3.0
This course allows the instructor to select a political problem which is either not covered in the curriculum or which deserves more in-depth treatment than is possible in a regular course.

POLS 420
SEMINAR AND INTERNSHIP IN POLITICAL SCIENCE 4.0
In this course students will work as interns for one semester in the office of a N.J. State Legislator, U.S. Congressperson or Senator, or state or federal executive.

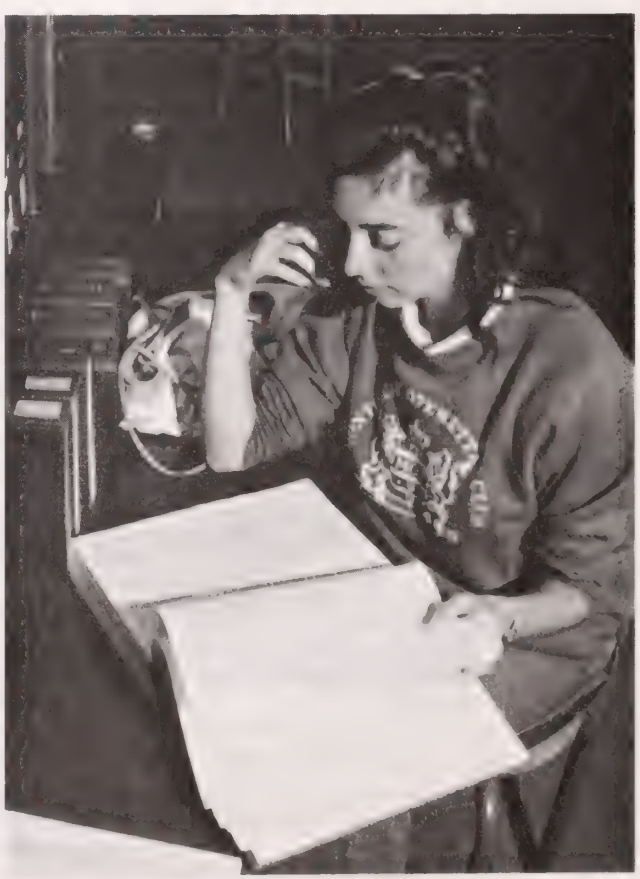
POLS 425
POLITICS OF FEDERAL BUREAUCRACY 3.0
In-depth examination of the federal bureaucracy in relationship with national, state and local agencies.
Prerequisite: POLS 102.

POLS 426
SEMINAR AND INTERNSHIP IN PUBLIC ADMINISTRATION I 5.0
A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Prerequisite: Instructor's permission.

POLS 427
SEMINAR AND INTERNSHIP IN PUBLIC ADMINISTRATION II 4.0
A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Prerequisite: Instructor's permission.

POLS 430
INTERNATIONAL LAW 3.0
The nature and place of international law in the conduct of international relations.

POLS 435
SENIOR HONORS SEMINAR 3.0
The course will involve intensive research in a seminar setting for senior political science majors. Students will conduct original research and present reports to meetings of the seminar.
Prerequisites: The course will be open only to senior majors with at least a 3.4 cumulative grade point average in political science.



Psychology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Roland Siiter

Undergraduate courses in psychology establish a sound basis for later professional or graduate training in psychology. As part of a broad liberal education, they satisfy the needs of students, majors and non-majors, and teach principles and techniques as intellectual tools for work in other social and biological sciences and in professional fields such as social work, journalism, business and law. Courses required for teacher certification in the State of New Jersey, as described in the Teacher Education program, are provided.

In addition to a diverse general psychology program, the department offers a Community Psychology concentration and an Honors Seminar Program, as well as minors in Psychology; and Community Psychology.

Psychology Major

Required Courses

			Semester Hours
PSYC	101	General Psychology I: Growth and Development	3
PSYC	203	General Psychology II: An Experimental Approach	3
PSYC	220	Quantitative Methods in Psychology	4
PSYC	301	Experimental Psychology	4

Electives (Departmental)

Select 24 semester hours from the appropriate list to be obtained from the department 24

Concentration Program Within the Major

Community Psychology

Required Courses

			Semester Hours
PSYC	101	General Psychology I: Growth and Development	3
PSYC	203	General Psychology II: An Experimental Approach	3
PSYC	220	Quantitative Methods in Psychology	4

Specialization

PCOM	245	Introduction to Community Psychology	3
PCOM	385	Advanced Community Psychology	3
PCOM	387	Methods in Evaluation Research	4
PCOM	391	Cooperative Education in Psychology	4-9

Electives (Departmental)

			Semester Hours
PSYC	201	Child Psychology	3
PSYC	202	Adolescent Psychology	3
PSYC	225	Psychology Adjustment	3
PSYC	227	Psychological Aspects of Human Sexuality	3
PSYC	230	Environmental Psychology	3
PSYC	231	Psychology of Aggression	3
PSYC	235	Psychology of Exceptional Children and Youth	3
PSYC	260	Social Psychology	3
PSYC	265	Psychology of Women	3
PSYC	268	Psychological Aspects of Aging	3
PSYC	305	Physiological Psychology	3
PSYC	310	Introduction to Psychological Testing	3
PSYC	341	Psychological Aspects of Consumer Behavior	3
PSYC	365	Abnormal Psychology	3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Note: The community psychology concentration requires 32 semester hours of course work and 9 semester hours of applied experience. Check with the department for details.

Community Psychology Minor

Required Courses

			Semester Hours
PSYC	101	General Psychology I: Growth and Development	3
PCOM	245	Introduction to Community Psychology	3
PCOM	385	Advanced Community Psychology	3

Electives (Departmental)

			Semester Hours
PSYC	201	Child Psychology	3
PSYC	202	Adolescent Psychology	3
PSYC	225	Psychology of Adjustment	3
PSYC	227	Psychological Aspects of Human Sexuality	3
PSYC	230	Environmental Psychology	3
PSYC	231	Psychology of Aggression	3
PSYC	235	Psychology of Exceptional Children and Youth	3
PSYC	260	Social Psychology	3
PSYC	265	Psychology of Women	3
PSYC	268	Psychological Aspects of Aging	3
PSYC	305	Physiological Psychology	3
PSYC	310	Introduction to Psychological Testing	3
PSYC	332	Psychological Foundations of Personality	3
PSYC	341	Psychological Aspects of Consumer Behavior	3
PSYC	365	Abnormal Psychology	3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Note: The Community Psychology Minor requires 21 semester hours of course work. Check with the department for details.

General Psychology Minor

Required Courses

PSYC 101 General Psychology I: Growth and Development 3
PSYC 203 General Psychology II: An Experimental Approach 3

Electives (Departmental—300 level or above)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Electives (Departmental-general)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Teacher Certification (Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Departmental course requirements include 30 semester hours of social science courses. Consult with an advisor for further information.

Teaching of Psychology Certification Endorsement

This certificate is necessary for teaching psychology in elementary and secondary schools. The requirements are as follows:

- A bachelor's degree based upon a four-year program in an accredited college.
- A regular New Jersey teaching certificate.
- Completion of 38 semester hours in Psychology including electives. Check with the department for appropriate courses.

Courses of Instruction

PCOM 245
INTRODUCTION TO COMMUNITY PSYCHOLOGY 3.0
Integration of social psychology with mental health in the resolution of problems in the community. Social psychological theories and empirical strategies used to study the dynamics of power, membership, change and deviance. Accent also on comprehensive mental health center and roles of community psychologist. Meets the General Education Requirement - Contemporary Issues.
Prerequisite: PSYC 101.

PCOM 385
ADVANCED COMMUNITY PSYCHOLOGY: EXTERNSHIP 3.0
Supervision is provided in a variety of community action programs which have preventive as well as treatment goals. Day and hour assignments can usually be arranged, but effective study participation will require a 3 hour block of time in order to serve directly in a community setting.
Prerequisites: PSYC 101, PCOM 245 or instructor's permission.

PCOM 387
METHODS IN EVALUATION RESEARCH 4.0
This course focuses on the application of psychological research methods and knowledge to the evaluation of the effectiveness or ineffectiveness of community programs. Emphasis will be on techniques for program planning and for constructive innovations in community settings.
Prerequisites: PSYC 220, majors only, PCOM 245, instructor's permission, PCOM 385, field work required.

PCOM 391
COOPERATIVE EDUCATION IN PSYCHOLOGY 4.0-9.0
The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off-campus, during which a student is supervised by a faculty coordinator and the office of cooperative education, and is responsible for completing the terms of a learning contract.
Prerequisite: Junior status.

PSYC 100
RE-ENTRY SEMINAR 2.0
Provides academic, career, and personal counseling during first semester adjustment period, group identification and support while developing renewed skills and ego strength. Offered only on a pass/fail basis.

PSYC 101
GENERAL PSYCHOLOGY I: GROWTH AND DEVELOPMENT 3.0
Psychology as an applied behavioral science; human development, conflict and adjustment, social behavior, group processes, individual differences, personality theory and assessment, behavior disorders, and principles of conditioning, learning and forgetting. Meets the General Education Requirement - Social Science, Survey Course.

PSYC 102
WOMEN'S WORLDS 3.0
This course introduces the general student to the broad and interdisciplinary field known as women's studies. It is designed to make students aware of the new discoveries in feminist research and to focus on many aspects of the female experience. The course is designed to help students understand different methodologies in diverse disciplines and to treat areas such as literature, history, psychology, and the arts through a thematic approach. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement. Cross-listed with Women's Studies under WMST 102.

PSYC 103
FRESHMAN SEMINAR 3.0
Major objective is to better acclimate the beginning college student (freshman and transfer) to campus life through an emphasis on affective education and group interaction. Values clarification and self identity are important course components. Meets the General Education Requirement Electives - Personal/Professional Issues.

PSYC 109
THE HUMAN ENVIRONMENT 3.0
Interdisciplinary with geography; people's modification and understanding of the environment; future human and environmental projections. Meets the General Education Requirement - Contemporary Issues.

PSYC 200
EDUCATIONAL PSYCHOLOGY 3.0
Required for teaching. Child and adolescent development; fundamentals of learning theory as applied to classroom situations, learning inhibition and academic non-achievement, personal-social adjustment, measuring and evaluating teaching-learning, creativity. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: PSYC 101.

PSYC 201
CHILD PSYCHOLOGY 3.0
Growth, development and behavior of children. Physical, intellectual, social and emotional development and their interaction. Scientific method exemplified through the literature and intensive study of individual children. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: PSYC 101.

PSYC 202
ADOLESCENT PSYCHOLOGY 3.0
Biological, psychological and social factors that shape the transition from childhood to adulthood. Normal and deviant patterns of development in morals, intellect, emotions and judgment. Problems of adolescents with practical application to oneself and others. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: PSYC 101.

PSYC 203
GENERAL PSYCHOLOGY II: AN EXPERIMENTAL APPROACH 3.0
Emphasis on psychology as an experimental and research oriented science. Topics under investigation include: experimental design, psychological measurement, physiology, perception, sensory processes, motivation, emotional behavior, and advanced topics in psychological learning theory.
Prerequisite PSYC 101

PSYC 220
QUANTITATIVE METHODS IN PSYCHOLOGY 4.0
This course introduces psychology majors to the basic principles of descriptive statistics, statistical inference, hypothesis testing, and their applications to research and psychological data. Measures of central tendency, variability, correlation, the normal curve, and parametric and nonparametric tests of significance will be covered. Students become familiar with the use of packaged programs for statistical analysis on small computers for the purpose of dealing with the typical data analysis problems that arise in Experimental Psychology, PSYC 301.
Prerequisite: PSYC 101.

PSYC 225
PSYCHOLOGY OF ADJUSTMENT 3.0
Individual and social adjustment. Typical varieties of adjustive behavior illustrated by practical examples. Factors which facilitate or impede man's adaptation to life situations such as work, marriage, disability, etc. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: PSYC 101.

PSYC 227
PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY 3.0
Behavior and attitudes influenced by basic sexuality widens perspectives to aid in decision-making. Developmental periods and sexual relationships; connections between psychological theory and sexual mores; genetic understandings.
Prerequisite: PSYC 101

PSYC 230
ENVIRONMENTAL PSYCHOLOGY 3.0
The influence of the physical environment on the behavior of organisms: population growth and regulation; crowding; sensory experience, enrichment and deprivation; motivational force of environmental stimulation; adaptation to environment as a function of prolonged exposure, salutary effects of aesthetically pleasing stimulation.
Prerequisite: PSYC 101, permission instructor.

PSYC 231
PSYCHOLOGY OF AGGRESSION 3.0
The root causes of violence in America will be examined through case studies, (the protest-movement of the 1960's, sexual and physical abuse, violent-criminal activity, etc.) and familiarization with biochemical psychological and socio-cultural research into causes and effects of aggression and violence. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement.
Prerequisite: PSYC 101

PSYC 235
PSYCHOLOGY OF EXCEPTIONAL CHILDREN AND YOUTH 3.0
Surveys, current practices and problems of exceptional children and youth. Explores the unique needs of individuals with handicaps that involve intellectual, sensory, motor, neurological, social and emotional origins. Utilizes analysis of case materials for theoretical and practical applications to the psychology of exceptionality.
Prerequisite: PSYC 101

PSYC 240
INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3.0
Application of psychological principles and practices in business and industry, problems of communication, group dynamics, man-machine relations, employee attitudes, accident prevention, industrial job selection techniques, motivation, executive leadership. Commonly used selection tests will be evaluated.
Prerequisite: PSYC 101

PSYC 246
PSYCHOLOGY OF THE BLACK EXPERIENCE 3.0
Historical impact of scientific and institutional racism on the psychological study of blacks. Survey and critical analysis of traditional European approaches with non-traditional methods for comparison. Future development and advancement of a black psychology considered. Meets the General Education Requirement - Social Science, Survey Course. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirements.
Prerequisite: PSYC 101.

PSYC 248
PSYCHOLOGY AND LAW 3.0
Law and psychology share a common focus: the understanding, prediction and regulation of human behavior. Despite this commonality of interest, different emphasis on these elements and a different mandate have frequently hindered active communication and collaboration between the disciplines. The purpose of this course is to present the common ground of law and psychology, and show how they contribute to each other.
Prerequisites: Majors only and PSYC 101

PSYC 255
PROBLEMS OF PERFORMANCE 3.0
Development of techniques needed for success in public appearances involving music, theatre, speech, etc., resolving such problems as stage fright, memory loss, pre-performance anxiety, attaining self-understanding and confidence using techniques of Havas, Berne, Horrigol, Weekes, Alexander, others. Guest performers. Open to all majors. This course is cross listed with MUPR 255.

PSYC 260
SOCIAL PSYCHOLOGY 3.0
Focus on social behavior of the individual and the group, social perception, motivation, and learning; attitudes and values; development and dynamics of social groups; inter-group tension and prejudice; mass phenomena; psychological approaches to social issues.
Prerequisite: PSYC 101.

PSYC 265
PSYCHOLOGY OF WOMEN 3.0
The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement.
Prerequisite: 6 s.h. in psychology.

PSYC 268
PSYCHOLOGICAL ASPECTS OF AGING 3.0
Overview of later maturity and aging. Emphasis on psychological, physiological and sociological aspects. Aging and the cognitive process. Mental health, death, adjustment problems, needs, issues.
Prerequisite: PSYC 101.

PSYC 300
THE TEACHING OF PSYCHOLOGY 3.0
This course covers the objectives, content, procedures and evaluation of teaching psychology. Topics include organization of classroom activities, lesson planning, techniques of motivation, use of multisensory aids, applications of principles of learning, and tests and measurements. Observation and participation in classroom activities and preparation for student teaching are coordinated with this course.
Prerequisites: Majors only and instructor's permission.

PSYC 301
EXPERIMENTAL PSYCHOLOGY 4.0
Introduction to laboratory methods of research in areas such as motivation, perception and learning. Emphasis is on design and execution of exploratory investigations. (3 hr lecture, 3 hr laboratory)
Prerequisite: PSYC 220.

PSYC 305
PHYSIOLOGICAL PSYCHOLOGY 3.0
Anatomical, neural and biochemical bases of behavior are studied. Topics include localization of function, neurohormonal interaction, sensory and motor functioning, emotions, the relationship of neurophysiological processes and personality.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 308
PERCEPTION 3.0
The theory and procedure of perceptual research. Theoretical approaches reviewed; modern psychophysical and perceptual research. Traditional problems of perception constancies of size and color brightness.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 310
INTRODUCTION TO PSYCHOLOGICAL TESTING 3.0
Tests of intelligence, aptitude, achievement and personality; principles of psychological testing; approaches to test construction.
Prerequisite: PSYC 220.

PSYC 313
COGNITION 3.0
The study of the acquisition, storage, retrieval, and use of knowledge, utilizing behavioral, observational, and computer modeling methods.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 332
PSYCHOLOGICAL FOUNDATIONS OF PERSONALITY 3.0
Current approaches and theories of personality development and organization.
Prerequisite: PSYC 203.

PSYC 340
HUMAN LEARNING AND MEMORY 3.0
Research, language and methods of learning theory. Classical and operant conditioning, complex habits, remembering and forgetting, transfer of training, cognition and behavior modification. Review of animal research but primary emphasis is on man.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 341
PSYCHOLOGICAL ASPECTS OF CONSUMER BEHAVIOR 3.0
Applications of the science of psychology to consumerism, consumer protection, questionnaire construction and opinion surveys, marketing and advertising.
Prerequisite: PSYC 220.

PSYC 345
MENTAL HEALTH ISSUES OF HISPANIC AMERICANS 3.0
A lecture-type course focusing on the personal, social, institutional and cultural forces that affect the mental health of Americans of Spanish descent. The course will cover issues such as the measurement of psychological functions, bilingualism, personal values and belief systems, the dynamics of the family and acculturation. A midterm and a final exam as well as a research paper will be required from students. Meets the Minorities Culture Requirement.

PSYC 348
PSYCHOLINGUISTICS 3.0
The study of language through linguistic, behavioral and cognitive methods. Basic linguistic ideas used for the explication of problems in grammar, cognitive structure, meaning, and speech production and comprehension.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 353
COMPARATIVE ANIMAL BEHAVIOR 3.0
The student will explore experimental and field studies of behavior in a few selected animal species with particular reference to the behavior of vertebrates. The program will involve detailed study of instinctive behavior and imprinting, respondent and operant behavior with emphasis upon the procedures and variables concerned with the acquisition of new forms of behavior.
Prerequisites: PSYC 203 or instructor's permission.

PSYC 358
FUNDAMENTALS OF CONDITIONING AND LEARNING 3.0
Major theoretical problems and theories of learning are considered. Includes experimental analysis of basic phenomena of conditioning and learning, studied primarily through experimental studies of infra-human organisms. Students may study selected topics more extensively.
Prerequisites: PSYC 203 and instructor's permission.

PSYC 360
HISTORY AND SYSTEMS OF PSYCHOLOGY 3.0
Historical development of psychology; comparative analysis of the major schools of contemporary psychology; new trends and movements in psychological theory.
Prerequisites: PSYC 203 and 6 additional semester hours in psychology.

PSYC 365
ABNORMAL PSYCHOLOGY 3.0
Overview of psychopathological processes. Neuroses, psychoses, and characterological disorders. Feeling, thinking and behavioral aspects during the life span. Diagnostic and treatment procedures.
Prerequisites: PSYC 203 and 225 or 332.

PSYC 400
SEMINARS IN PSYCHOLOGY 3.0-4.0
Intensive study on topics related to student and instructor interest. Forum for instructor specialization and small group interaction. Advanced students only.

PSYC 402
SOCIAL ROLE OF PSYCHOTHERAPIES 3.0
The effects of various psycho/therapies upon society, social institutions and social relationships. Impact of classical Freudian therapy, behaviorism, group and encounter movements.
Prerequisites: Two courses in psychology.

PSYC 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
Transcultural focus on the inter-related nature of culture and human behavior. Team taught interdisciplinary course with emphasis on mutual dependencies of psychological and anthropological theory and method. Students work with bicultural informants. Cross-listed with anthropology, ANTH 405.
Prerequisite: PSYC 101 or ANTH 100.

PYSC 459
SPECIAL TOPICS IN PSYCHOLOGY 3.0
In-depth view of important theoretical and methodological issues in a specific area of psychology. The area to be covered is chosen by the instructor. The course permits the instructor and students to examine psychological issues which are either not covered in the curriculum or which deserve more in-depth treatment than is possible in a regular course. The course may be taken no more than twice as part of major or minor degree requirements in psychology.
Prerequisites: Junior standing and instructor permission.

PSYC 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
Emotional correlates of the musical experience are explored through research findings, psychological testing and inquiry, and philosophy. The implications of current theories applied to practice in music therapy, education, and performance are discussed. This course is cross listed with MUTH 463.

PSYC 464
PSYCHOLOGICAL FOUNDATIONS Of MUSIC II 2.0
The basic literature concerning psychological research in music is reviewed, with emphasis on experimental research techniques and interpretation of data. The implications of research for music therapy, education, and performance are discussed. This course is cross listed with MUTH 464.

PSYC 470
CHILDREN'S RIGHTS AND CHILD ADVOCACY 3.0
The review and evaluation of the rights, privileges, and responsibilities of young citizens (preschool through adolescence); the process and goals of advocacy; the community services available to and lacking for the optimum development to maturity of young citizens. Psychology, education, sociology, mental health, law enforcement, medicine are domains of study and investigation.
Prerequisites: Junior standing and instructor's permission.

PSYC 491
INDEPENDENT STUDY I: RESEARCH 1.0-3.0
Individual research project under supervision of a professor in the department.
Prerequisite: Permission of instructor.

PSYC 492
INDEPENDENT STUDY II: RESEARCH 1.0-3.0
Individual project under supervision of a professor in the department.
Prerequisite: Instructor's permission.

Reading and Educational Media

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Joy Stone

The Department of Reading and Educational Media prepares professionals for leadership roles in various institutional contexts and provides support services to the campus and community. The department also offers an M.A. in Reading, and course work leading to certification for Reading Teacher, Reading Specialist, Associate Media Specialist and Media Specialist.

Reading Program

The Reading Program encompasses several major areas at the undergraduate level. These areas include a reading course fulfilling the general education requirements, nine semester hours in the teaching of reading and critical thinking for students enrolled in teacher education programs, a reading minor, and personal reading improvement such as study skills and speed reading.

The course READ 105 Reading: Communicating Through Text fulfills a general education requirement for full-time freshmen and part-time students. The courses designed to meet initial certification for teacher education majors are READ 407 Reading: Theory and Process, READ 408 Reading: The Content Areas, and READ 409 Teaching for Critical Thinking (cross-listed with CURR 409 and EDFD 409). A Reading minor of 12 semester hours in related areas is available. Upon completion of the minor, students are eligible for the Reading Teacher Certificate. See advisor for endorsement or certification guidelines in reading.

Students can enhance their personal reading improvement and study skills by enrolling in READ 102 College Reading and Study Skills Improvement and/or READ 300 Speed Reading for Academic and Professional Development.

For all students who must meet their basic reading skills requirement, the Reading program offers a three-semester-hour non-additive credit course entitled READ 053 Basic Reading Skills.

The department also offers READ 100 College Learning and Thinking Skills, a course for freshmen in the Special Tutorial Program to develop the cognitive and affective strengths needed for college success. This course is cross-listed with CURR 100.

Faculty in the Reading and Study Skills Center will advise students regarding academic or personal Reading programs. Tutoring and independent work are also available.

Reading Minor

The course sequence in Reading will be coordinated with the course sequence in the major program. A minimum of 24 semester hours will be required for the completion of the minor.

Required Courses

			Semester Hours
READ	400	Foundations of Reading Instruction*	3
READ	402	Survey of Reading Methods in Secondary Subjects	3
READ	403	Practicum in Reading and the Improvement of Study Skills	3
READ	404	Diagnosis and Treatment of Reading Problems	3
PSYC	235	Psychology of Exceptional Children and Youth (prerequisite)	3

*Prerequisite for all Reading courses.

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Note: College students may take a personal reading improvement program as a service through the Reading and Study Skills Center.

Educational Media

The modern library doesn't just contain printed material; it stores informational media. The Educational Media program provides students with up-to-date course work leading to New Jersey state certification on the graduate level as an Associate Educational Media Specialist or as an Educational Media Specialist. Departmental offerings also include and undergraduate Media course, MEDI 355 Media in Intercultural Communication which fulfills the General Education Requirement in Contemporary Issues.

Requirements for the Associate Educational Media Specialist Certificate

Satisfactory completion of not fewer than 18 semester hours of work as follows: (In exceptional cases appropriate substitutions or changes may be made in these requirements upon approval by the program advisor.)

I. Prerequisites

1. To be determined by departmental advisement in reference to any deficiencies made apparent by New Jersey Standards for Coordination and Development of Educational Media Services for Public Schools.
2. A Bachelor's degree and a curriculum approved for a standard New Jersey Teachers' Certificate, or a Bachelor's degree plus a New Jersey Teacher's Certificate.

II. Specialization in Educational Media

			Semester Hours
MEDI	401	Fundamentals of Cataloging and Classifying Educational Resources	3
MEDI	402	Reference and Bibliography for School Resource Centers	3
MEDI	403	Reading Materials for Children and Youth (Selection and Evaluation)	3
MEDI	500	Media, Technology and Learning in the Curriculum	3
MEDI	520	Production of Materials for Media Technology	3
MEDI	521	Design of Innovative Curriculum Resources	3
MEDI	540	Television Production in Education	3
MEDI	541	Television Programming in Education: Independent Study	3
MEDI	550	Administration and Supervision of Media in Education	3
MEDI	570	Developing Materials for Computer Technology in Training and Education	3
MEDI	610	Research and Development Seminar in Instructional Technology and Resources	3
			Minimum: 18 semester hours
MEDI	615	Supervised Field Experience for Educational Media Certification	3
When field experience is required:			Minimum: 21 semester hours

Courses of Instruction

MEDI 355
MEDIA IN INTERCULTURAL COMMUNICATION 3.0
Offered to develop an awareness of the ways in which media are effective for solving problems of communication in intercultural situations. Cultural and technological factors affecting accuracy and meaning in human expression receive major attention. The ability to identify a communications problem between or among cultures, and select and implement a media remedy is stressed. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

MEDI 401
FUNDAMENTALS OF CATALOGING AND CLASSIFYING EDUCATIONAL RESOURCES 3.0
Covers principles involved in cataloging and classification of print and nonprint materials according to established classification schemes. Extensive practice through laboratory experience provided.

MEDI 402
REFERENCE AND BIBLIOGRAPHY FOR SCHOOL RESOURCE CENTERS 3.0
An examination and analysis of basic reference materials with emphasis on those most useful in library resource centers. Encyclopedia, dictionaries, geographical and statistical sources as well as bibliographies are included.

MEDI 403
READING MATERIALS FOR CHILDREN AND YOUTH (SELECTION AND EVALUATIONS) 3.0
A study and evaluation of library materials provided by the modern school media center to meet the needs of youth. Extensive critical reading of books for children and young adults is required. Principles of book selection are emphasized and experience in the use of selection tools is provided. The point of view relates the library collection to the total school program.

READ 053
BASIC READING SKILLS 3.0
An intensive laboratory course for students who must fulfill their minimum basic skills requirement in reading. Non-additive credit. Traditional grading procedures in effect.
Prerequisite: New Jersey College Basic Skills Placement Test.

READ 100
COLLEGE LEARNING AND THINKING SKILLS 3.0
Course is designed to provide freshmen in the student tutorial program with a learning environment in which to develop the cognitive and affective strengths needed for college success. The course offers opportunities to become inquisitive, competent, and confident learners. Cross-listed with Curriculum and Teaching (CURR 100).

READ 102
COLLEGE READING AND STUDY SKILLS IMPROVEMENT 3.0
Workshop for college students whose reading—study problems interfere with school progress. Supervised practice promotes vocabulary growth flexible speeds, comprehension and recall, skimming, interpretative and critical techniques. Reviewing for examinations, keeping up with daily assignments, taking notes and organizing content.

READ 105
READING: COMMUNICATING THROUGH TEXT 3.0
This course, designed for the general student, will foster a critical understanding of the processes involved in efficient and effective reading. Emphasis will be placed on developing students' life-long reading habits in relation to comprehension, aesthetic sensibilities and analytical skills. Meets the General Education Requirement - Communication, Reading.

READ 300
SPEED READING FOR ACADEMIC AND PROFESSIONAL DEVELOPMENT 3.0
An intensive speed reading course for students who must contend with a myriad of reading materials in their college courses as well as future occupations. Students will practice strategies for dealing efficiently with a variety of printed materials such as journals, technical reports, office memoranda, textbooks and newspapers. Content will include the mechanics of speed reading, reading flexibility, establishing purpose, surveying, skimming, scanning and phrasing. Students will learn how to evaluate their improvement and how to maintain their speed reading skills.

READ 301
TUTORING AND SMALL GROUP INSTRUCTION 2.0
Designed to provide tutors, teacher aids, and other personnel with the necessary background of knowledge, skills and understanding to enable them to serve in educational environments in schools, hospitals, prisons, neighborhood youth corps, community action programs, etc. Students enrolled in this course will learn how they can increase the academic performance of the learner; how they can supplement rather than subvert that the instructor in the formal educational environment will do. (Open to undergraduates, volunteers, and personnel from community action programs.) May be taken as an elective or as part of the reading minor.

READ 400
FOUNDATIONS OF READING INSTRUCTION 3.0
Good first teaching of reading is of primary importance. The sequential development of reading skills extend into the junior and senior high schools. Methods and materials currently in use in elementary reading programs are studied with a view toward increasing the power of both the teacher and the learner. How the reading process begins, and how it is reinforced are topics fundamental to all upper grade teachers faced with the problem of continuing reading skills development in curriculum areas. Tutoring experience in nearby elementary schools is required.

READ 402
SURVEY OF READING METHODS IN SECONDARY SUBJECTS 3.0
The following are explored: the role of good reading for academic and personal success; the physiological, psychological and sociological factors in reading; resources available. The school's responsibility to help the student build reading skills; reading opportunities in the entire curriculum.

READ 403
PRACTICUM IN READING AND THE IMPROVEMENT OF STUDY SKILLS 3.0
The following areas are explored: recent materials and research for teaching and learning; the SQ3R approach; taking examinations; reading and problem solving; memory and concentration; taking and organizing reading notes; and the reading of homework assignments. Students tutor collegians in these areas.

READ 404
DIAGNOSIS AND TREATMENT OF READING PROBLEMS 3.0
Problems of the handicapped; recent materials and research; evaluative and corrective techniques; diagnostic treatment and methodology are covered. An on-going student diagnosis of a school-age child is required.

READ 407
READING: THEORY AND PROCESS 3.0
Designed for classroom and non-classroom personnel whose major responsibility is instructing students. Major focus will be on developing those skills, understandings and competencies in the nature of the reading process in specific word recognition and comprehension strategies, and in classroom diagnostic techniques.
Prerequisite: Junior or senior standing.

READ 408
READING: THE CONTENT AREAS 3.0
Designed to enable content area teachers to understand the developmental nature of the reading process and employ specific techniques to facilitate and improve reading competencies.
Prerequisite: Junior or senior standing.

READ 409
TEACHING FOR CRITICAL THINKING 3.0
Designed for pre-service teachers to foster critical thinking in and about the disciplines they will teach. Emphasis will be placed on the processes of thinking in general, on the nature of critical thinking, on classroom conditions which promote critical thinking, on metacognition, whereby students will be encouraged to be conscious of their own thinking and on methods for assessing the quality of students' thinking. Cross-listed with CURR 409 and EDFD 409.
Prerequisites: Completion of initial field experience, educational psychology and general psychology courses as well as formal admission to the Teacher Education Program.

Sociology

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Laura Kramer

Sociologists deal with varied questions about the social world and the lives of individuals within it. Some areas of concern may be: the way wealth and power affect society, major characteristics of contemporary family life, how individuals organize and influence their everyday social world. Taking sociology courses ensures that the student learns to confront these and other issues.

The Sociology major provides the groundwork for fields such as teaching, crime prevention, social work, law, or social research. There are three minors in Applied Sociology which may be taken in combination with the Sociology major or another major. One minor specializes in the application of sociology to the helping professions (such as social work or the ministry), one minor deals with the application of sociology in work and industry, and one minor applies sociology and other social sciences to the study of Criminal Justice. The minor in Criminal Justice is described in this catalog under Interdisciplinary Minors.

The Sociology Department offers a Bachelor of Arts degree.

Sociology Major

Required Courses

			15 Semester Hours
SOCI	201	Foundations of Sociological Inquiry	3
SOCI	301	Sociological Research Methods I	3
SOCI	313	Sociological Theory: Critical Analysis	3
SOCI	314	Statistics for Social Research	3
SOCI	300	Externship in Sociology	
or			
SOCI	410	Social Action Practicum	3

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21
(9 semester hours must be selected from 300 or 400 level courses with appropriate approval.)

Note: It is important to try to meet the methods requirement during the junior year.

Applied Sociology Minor

EMPHASIS ON HELPING PROFESSIONS AND INSTITUTIONS

As part of its Applied Sociology program, the department has an emphasis on helping professions and institutions. It is open to students in all majors who are interested in pursuing careers in the human service field.

Required Courses

			Semester Hours
SOCI	336	The Sociology of Helping Professions and Institutions	3
SOCI	337	Methods and Techniques in the Helping Professions	3
SOCI	300	Externship in Sociology (Supervised Field Work)	3
or			
SOCI	410	Social Action Practicum (Supervised Field Work)	3

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9
Special clusters of electives are recommended for students who want expertise in helping professions dealing with the aged.

Applied Sociology Minor

EMPHASIS ON WORK AND INDUSTRY

The Sociology Department's Applied Sociology minor includes a program on work and industry. This minor is open to students in all majors who are interested in applying sociological understanding to the areas of labor relations, professions, industrial and other work settings.

Required Courses

			Semester Hours
SOCI	304	Sociology of Work and Professions	3
SOCI	300	Externship in Sociology	3
or			
SOCI	410	Social Action Practicum	3
SOCI	414	Selected Topics in Applied Sociology	3
or			
SOCI	335	Workers and Their Organizations	3

Electives

Select 9 semester hours from the appropriate list to be obtained from the department 9

Note: It is possible to have further field experience by doing a project of your choice and taking SOCI 310 Directed Independent Research as an elective.

Courses of Instruction

SOCI 100
THE SOCIOLOGICAL PERSPECTIVE 3.0
An introduction to the study of human groups from peer groups to families to societies. How and why culture, social structure, and group processes arise. Consequences of social forces for individuals. Meets the General Education Requirement - Social Science, Survey Course.

SOCI 101
CRIMINOLOGY 3.0
Definitions of crime; sociological explanation of crime; the nature and extent of criminal behavior. Analysis of different types of crime, including juvenile delinquency, corporate crime, crimes against women, and crimes by police. Institutions of social control: police, courts, prisons. Meets the General Education Requirement - Social Science, Topic Course.

SOCI 112
SOCIOLOGY OF LEISURE 3.0
Leisure as a social problem, work and leisure, the use of leisure time in modern society.

SOCI 113
SOCIAL PROBLEMS 3.0
How social structure and social institutions are related to problems such as discrimination, environmental pollution, violence, and poverty. Meets the General Education Requirement - Contemporary Issues.

SOCI 200
SOCIOLOGY OF EDUCATION 3.0
The school as an institution of social control and social change. The social organization of schools: social roles of students, teachers and other school personnel. (Not to be used for teacher certification.)

SOCI 201
FOUNDATIONS OF SOCIOLOGICAL INQUIRY 3.0
An introduction to the methods and theory of sociological inquiry. Topics include: comparisons of dominant paradigms of sociological thought, critical analysis of basic concepts in the field, logic and rhetoric of sociological analysis and ethical and value issues in the practice of sociology. Emphasis will also be placed upon writing sociology: documentation, literature search, organization and style.
Prerequisite: ENGL 105.

SOCI 202
RACIAL AND ETHNIC RELATIONS 3.0
The social meaning of race and ethnicity. The social, psychological and structural sources of racism; the consequences of this phenomenon to groups; situation and comparative data. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

SOCI 203
SOCIOLOGY OF ORGANIZED CRIME 3.0
Organized crime as a sociological phenomenon. The methods and goals of large-scale crime and its economic, political and social costs; popular attitudes towards organized crime; efforts of enforcement and investigation agencies to deal with the problem.

SOCI 204
SOCIOLOGY OF THE FAMILY 3.0
Discussion of "official" and "unofficial" (single parent, gay/lesbian) family relationships; compare current U.S. family forms with those of other historical periods and societies; examine trends in contemporary societies affecting family forms such as changing work role of women, changed sexual forms in courtship and recent changes in divorce rate; analyzes issues in the "politics of the family." Meets the General Education Requirement - Social Science, Topic Course.

SOCI 205
BLACK FAMILY 3.0
The black family in American society; historical perspectives and contemporary conflicts surrounding the black family. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Requirement.

SOCI 206
INDIVIDUAL AND SOCIETY 3.0
The relationship between culture, social structure, various institutions and the individual's social perceptions, sense of self and self-presentation are explored in this course. The structure of small groups is also discussed. Meets the General Education Requirement - Electives Personal/Professional Issues.

SOCI 207
SOCIAL STRUCTURE OF AMERICAN SOCIETY 3.0
Empirical materials on social structure. Inter-institutional relations as the form of the broad, general structure of American society. Meets the General Education Requirement - Social Science, Topic Course.

SOCI 209
SOCIOLOGY OF POVERTY AND WELFARE 3.0
Poverty and welfare institutions as social phenomena. The meaning of poverty, absolute and relative deprivation, the functions of social welfare institutions. Meets the General Education Requirement - Contemporary Issues.

SOCI 211
SOCIOLOGY OF HEALTH AND ILLNESS 3.0
Social and cultural definitions of health and illness, social sources of illness, the social role of the "sick", comparative medical beliefs and practices and medical institutions. Meets the General Education Requirement - Contemporary Issues.

SOCI 212
SOCIOLOGY OF SOCIAL AND TECHNICAL CHANGE 3.0
Social processes affecting technological innovation and the forms in which an innovation is institutionalized or abandoned. The social consequences and assessment of technological innovations. Meets the General Education Requirement - Contemporary Issues.

SOCI 214
SOCIOLOGY OF CONFLICT AND VIOLENCE 3.0
A multidisciplinary approach to the social sources of conflict and violence; the sociological approach contrasted with biological and other approaches; interpersonal and institutional conflict and violence; the relationship between conflict and violence; types of conflict and violence, war, crime class conflict and ethnic and racial hostilities. Meets the General Education Requirement - Contemporary Issues.

SOCI 216
SOCIOLOGY Of FOOD AND POPULATION 3.0
This course will examine the ways in which people's food production and consumption patterns are affected by and related to other aspects of their social organization. The interrelationship between food production/consumption patterns, political life, stratification systems, and demography will be examined. The main focus will be a comparison between different forms of social organization with respect to the management of food and population issues. Meets the General Education Requirement - Contemporary Issues.

SOCI 218
SOCIOLOGY OF POPULATION 3.0
Problems of population and demographic change; social foundations and consequences of changes in fertility, mortality, and migration. Population and socio-economic development. The uses of demographic data in planning, policy making, and social research. Meets the General Education Requirement - Contemporary Issues.

SOCI 219
SOCIOLOGY OF AGING 3.0
Aging process from a sociological perspective. Demographic trends, sociological theories, sociocultural factors; aging in different societies and social movements among the elderly.

SOCI 220
SOCIOLOGY OF RICH AND POOR NATIONS 3.0
This course focuses on the interrelationships between development and underdevelopment and upon the division of the world into rich and poor nations. The phenomenon of underdevelopment is analyzed in sociological terms by emphasizing its demographic, stratification, migratory, ideological, educational, family and religious aspects. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

SOCI 300
EXTERNSHIP IN SOCIOLOGY 3.0-9.0
Students will select an institution in the metropolitan area in which to become participant-observers. Application of a sociological perspective to the problems and structure of institutions encouraged through faculty supervision. Multiple semester selection permitted with approval.

SOCI 301
SOCIOLOGICAL RESEARCH METHODS I 3.0
Introduction to primary methods of gathering sociological data: experimentation, survey research, participant observation, etc. Use of computers to analyze data. The formulation of hypotheses, survey design, participant observation and the use of elementary statistics.

SOCI 302
SOCIOLOGICAL RESEARCH METHODS II 3.0
The formulation of hypothesis, survey design, participant observation and the use of elementary statistics; certain broad problems in the philosophy of social science.
Prerequisite: SOCI 301.

SOCI 303
LARGE SCALE ORGANIZATIONS 3.0
The structure and functions of bureaucracy in modern society; the life cycle of large organizations and their methods of operation; selected contemporary problems.

SOCI 304
SOCIOLOGY Of WORK AND PROFESSIONS 3.0
The development of modern focus of work; the shift from manufacturing to service occupations; and problems of work alienation; current models of labor management relations in the U.S. compared to western Europe and Japan; the effects of the technology on skill, employment levels, and on labor management relations; conceptions of the professions and their role in society; the process of an occupation becoming a profession.

SOCI 310
DIRECTED INDEPENDENT RESEARCH 3.0-9.0
Research and report under faculty direction. The student selects, for investigation, an area of sociological concern with the approval of a faculty supervisor. Multiple semester selection permitted with approval.

SOCI 311
URBAN SOCIOLOGY 3.0
Processes of urbanization and suburbanization; nature of urban social relations, including racial and ethnic relations; urban ecological patterns and demographic conditions. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

SOCI 313
SOCIOLOGICAL THEORY: A CRITICAL ANALYSIS 3.0
A comparison of important theories on key themes in sociology; the nature of social interaction, the definition of power, stratification, social control and deviance, alienation and anomie, social structure and function, social bases of knowledge and belief, and social conflict and change.

SOCI 314
STATISTICS FOR SOCIAL RESEARCH 3.0
The use of statistics to summarize data, to show relationships among variables. Evaluating research reports based on statistics. Use of the computer to analyze data.

SOCI 315
SOCIAL STRATIFICATION 3.0
The inequalities of social ranking systems in societies. Theoretical and empirical approaches to stratification delineating the variables of power, power elites, class consciousness, alienation and class mobility. Meets the Minorities Culture Requirement.

SOCI 321
WHITE COLLAR CRIME 3.0
An examination of the nature, scope, forms and styles of occupational and business-related criminal activities in the U.S., as well as their social, political and economic implications.

SOCI 322
JUVENILE DELINQUENCY AND JUVENILE JUSTICE 3.0
This course will deal with the major sociological explanations of juvenile delinquency. The relationship between juvenile crime and justice and the socio-economic and institutional arrangements of the larger society will be the primary focus.

SOCI 323
INTRODUCTION TO CRIMINAL JUSTICE 3.0
This course will examine the criminal justice system, and its agencies (police, courts, corrections),and analyze their function in contemporary society. It will focus on the means by which the system serves to reproduce a social order based on the unequal distribution of power, wealth and status; explore gender, race and class bias in the processing and imprisonment of offenders; and determine the system's role in the creation and maintenance of a "criminal" underclass. It will also consider the various subcultural worlds to which agency members, and their clients, belong, and the types of experience on which they are based.

SOCI 330
POLITICAL SOCIOLOGY 3.0
This course will endeavor to give the student a relatively complete understanding of the social dynamics of political actions on various levels.

SOCI 332
SOCIOLOGY OF POPULAR ARTS 3.0
Components of entertainment including paperback and magazine fiction, movies, theatre and popular music; the audiences, content, performers, managers, and owners.

SOCI 334
COMPARATIVE SOCIAL ANALYSIS 3.0
Comparative sociological schemes; the analytical blocks of total society; kinship, family and marriage; policy and bureaucracy; social stratification and mobility; industrialization and urbanizations; belief systems and value orientations.

SOCI 335
WORKERS AND THEIR ORGANIZATIONS 3.0
The course aims to provide the student with a general overview of the nature of work in modern society and of the ways in which workers react to it. In particular, the ways in which workers' organizations develop, and are shaped by community and political forces, will be an important focus.

SOCI 336
THE SOCIOLOGY OF HELPING PROFESSIONS AND INSTITUTIONS 3.0
This course focuses on the social functions, determinants, and consequences of helping professions such as social work, and helping institutions such as public welfare. Particular emphasis is placed on the relations of helping professions and institutions with their socio-political environment and with their clients.

SOCI 337
METHODS AND TECHNIQUES IN THE HELPING PROFESSIONS 3.0
This course focuses on the social processes involved in working with and helping people in such endeavors as social work and in such settings as hospitals. Particular emphasis is placed on understanding the dominant contemporary methods and techniques which are used to provide help to those in need.

SOCI 390
COOPERATIVE EDUCATION IN SOCIOLOGY 8.0
The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The coop term is a semester off campus, during which a student is supervised by a faculty coordinator and the office of Cooperative Education and is responsible for completing the terms of a learning contract.

SOCI 402
SOCIAL CONTEXTS Of MENTAL ILLNESS AND TREATMENT 3.0
Social conceptions of mental health and illness; social factors in the causes and treatment of mental illness. Mental institutions—their structures and ideologies. Comparative psychotherapies in social context; mental health personnel and professional ideologies; social movements and mental health and illness.

SOCI 403
SOCIOLOGY OF KNOWLEDGE 3.0
The interaction between the social structure, the ideas, beliefs, technology, and perceptions that prevail in society or in particular groups within society.

SOCI 404
SOCIOLOGY OF RELIGION 3.0
The social bases of religious belief and activity; religious movements, denominationalism, sectarianism, secularization, pluralism, the social bases of belief and unbelief, and cross-cultural and historical comparisons.

SOCI 405
DEVIANCE AND SOCIAL CONTROL 3.0
Theoretical perspectives on human deviance. The social organization of specific types of deviance and of formal and informal social control.

SOCI 406
SOCIOLOGY OF SMALL GROUPS 3.0
Structured along lines of educational self-analytic groups. Students will learn about small group dynamics and interpersonal processes by studying the on-going interaction of the class as small groups.
Prerequisite: SOCI 206.

SOCI 407
SOCIOLOGY OF THE MASS MEDIA 3.0
Television, press, film and other media—their social organization and how they function. Who the media influence and how. Who influences the media and how.

SOCI 408
SOCIAL MOVEMENTS 3.0
This course focuses on the study of concerted collective behavior for social change, or social movements. Various approaches to the understanding of social movements, including the natural history, case study, and analytical models, will be examined. Emphasis will be placed on relating theoretical work to contemporary empirical examples of social movement activity.

SOCI 410
SOCIAL ACTION PRACTICUM 3.0-9.0
Students, individually or in groups, design and implement field research and activity with an explicit, culturally defined objective, as an exercise in "applied sociology."

SOCI 411
SELECTED TOPICS IN SOCIOLOGICAL THEORY 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to only the general area of sociological theory.

SOCI 412
SELECTED TOPICS IN SOCIOLOGICAL RESEARCH METHODS 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to projects or study in research methodology.

SOCI 413
SELECTED TOPICS IN INSTITUTIONAL PROCESSES 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to a consideration of problems in institutional processes.

SOCI 414
SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to the application of sociological methodology, theory or content to social situations, or to community issues or problems.

SOCI 420
SOCIOLOGY OF LAW 3.0
The impact of the social usages of law on all levels of operation as an instrument of social policy, social control and social regulation.

SOCI 430
SOCIOLOGY OF GENDER 3.0
The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion; special emphasis is placed on the impact of social change on sex roles in contemporary society. Meets the Minorities Culture Requirement.

Spanish and Italian

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Rose S. Minc

The major programs in Spanish and Italian are designed to help students achieve linguistic fluency, an appreciation of literature and a comprehensive knowledge of cultural history. The Spanish curriculum embraces both Spain and Spanish America, and the Department also offers a minor in Portuguese.

Majors in both Spanish and Italian may elect a program in teacher certification which includes a semester of supervised practice teaching. A "second teaching field" sequence is available for both Spanish and Italian.

A special option in Spanish is a four-course concentration in translating and interpreting which provides a practical background for students preparing for careers in business, law, social service and other areas.

The Department also offers minor sequences in Spanish and Italian. Majors intending to pursue graduate studies are advised to acquire proficiency in at least one additional language. Minors such as Hispanic Community Affairs and Paralegal Studies provide further opportunities for specialized training. Additionally, Cooperative Education internships, providing both college credits and remuneration for supervised work experience, can be arranged for students of Spanish, Italian and Portuguese.

Study Abroad

It is highly recommended that majors spend a year, a semester, a winter or a summer studying in a Spanish or Italian speaking country. This study should preferably be planned for the junior year.

After successful completion of the program, credits will be granted by evaluation.

Spanish Major

Required Courses

			Semester Hours
24 semester hours:			
SPAN	141	Grammar and Composition I	3
SPAN	142	Grammar and Composition II	3
SPAN	151	Masterpieces of Spanish Literature I	3
SPAN	152	Masterpieces of Spanish Literature II	3
SPAN	161	Masterpieces of Spanish-American Literature I	3
SPAN	162	Masterpieces of Spanish-American Literature II	3
SPAN	260	Spanish Cultural History	3
SPAN	270	Spanish-American Cultural History	3

Electives (Major)

Select 12 semester hours with at least two courses from literature and one from language. The literature courses must be at or above the 300 level. Obtain elective list from the department.

Spanish Minor

Required Courses

			Semester Hours
SPAN	141	Grammar and Composition I	3
SPAN	142	Grammar and Composition II	3
SPAN	152	Masterpieces of Spanish Literature II	3
SPAN	162	Masterpieces of Spanish-American Literature II	3
SPAN	260	Spanish Cultural History	3
or			
SPAN	270	Spanish American Cultural History	3

Electives (Major)

Select 3 semester hours in a literature course.

Total Semester Hours **18**

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. As part of the professional sequence students must take SPAN 419 The Teaching of Spanish in Secondary Schools.

Second Teaching Field in Spanish

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Required Courses

			Semester Hours
SPAN	141	Grammar and Composition I	3
SPAN	142	Grammar and Composition II	3
SPAN	209	Introduction to Spanish Phonetics	3
SPAN	260	Spanish Cultural History,	3
or			
SPAN	270	Spanish-American Cultural History	3
SPAN	309	Spanish Conversation	3
SPAN	410	Advanced Spanish Grammar	3

Electives (Major)

Select 6 semester hours in literature courses from the appropriate list to be obtained from the department.
Additional requirements may be obtained from the department.

Note: If a student has not studied a methods course in foreign language teaching, it is necessary to take SPAN 419, The Teaching of Spanish in Secondary Schools.

Concentration in Translation

Required Courses

			Semester Hours
SPAN	350	Translating I	3
SPAN	351	Translating II	3
SPAN	452	Translating III	3
SPAN	450	Introduction to Interpreting	3

The concentration in translation is designed to enhance the preparation of Spanish majors who are considering careers in diplomatic service, business, social service or law or who have an interest in literary translation.

Students who have successfully completed Translating III are eligible to take the certification examination given each year in May.

Italian Major

Required Courses

15 Semester hours:

ITAL	141	Italian Grammar and Composition I 3
ITAL	142	Grammar and Composition II 3
ITAL	240	Italian Literature: Origins to 18th Century 3
ITAL	241	Italian Literature: 18th to 20th Centuries 3
ITAL	260	Italian Cultural History 3

Electives (Major)

Select 21 semester hours from the appropriate list obtained from the department with at least one course from literature and one from language.

Italian Minor

Required Courses

ITAL	141	Italian Grammar and Composition I 3
ITAL	142	Grammar and Composition II 3
ITAL	240	Italian Literature: Origins to 18th Century 3
ITAL	241	Italian Literature: 18th through 20th Centuries 3
ITAL	260	Italian Cultural History 3

Elective

Select 3 semester hours from the appropriate list obtained from the department.
Total Semester Hours **18**

Teacher Certification

Students interested in teaching Italian must be admitted to the Teacher Education Program. See the professional sequence outlined in this catalog. As part of the professional sequence for Italian this course must be taken:
ITAL 419 The Teaching of Italian in Secondary Schools 3

Second Teaching Field in Italian

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

ITAL	141	Italian Grammar Composition I 3
ITAL	142	Italian Grammar and Composition II 3
ITAL	240	Italian Literature: Origins to 18th Century 3
ITAL	241	Italian Literature: 18th through 20th Centuries 3
ITAL	260	Italian Culture History 3
ITAL	309	Italian Conversation 3
ITAL	410	Italian Grammar for Teachers 3

Elective

Select 3 semester hours from the appropriate list obtained from the department.

Additional requirements may be obtained from the department.

Note: If a student has not studied a methods course in foreign language teaching, it is necessary, to take ITAL 419, The Teaching of Italian in Secondary Schools.

Portuguese Minor

Course Offerings

PORT 101, 102 Portuguese I and II (beginning level) ..... 3 ea.
PORT 103, 104 Portuguese III and IV (intermediate level) ..... 3 ea.
PORT 141, 142 Portuguese Grammar and Composition I and II (advanced level) ..... 3 ea.
PORT 160 Masterpieces in Portuguese Literature 3
PORT 162 Masterpieces in Brazilian Literature 3
PORT 221 Commercial Portuguese 3
PORT 260 Luso-Brazilian Culture 3
PORT 350 Translating I 3
PORT 385 Cooperative Education 4-8

For a minor in Portuguese, a student selects 18 semester hours from PORT 103 and above.

Hispanic Community Affairs Minor

Required Courses

SPAN 472 Puerto Rican Literature and Thought 3
or
SPAN 280 Cuban Cultural History 3

Electives

Select 12 semester hours in courses from the interdepartmental list obtained from the department of Spanish and Italian.

Field Work

Semester Hours

Select 3 courses
SPAN 360 Hispanic Community Program 3
SPAN 481 Field Work I 3
SPAN 482 Field Work II 3
SPAN 483 Field Work III 3

Paralegal Studies Minor

The Paralegal Studies Minor, in combination with any number of diverse majors, prepares the student to work in many legally-related fields. This ABA approved program is 24 semester hours. An optional Hispanic specialization, through internship and training offered in the Spanish department, is available to students fluent in Spanish. For a complete description of the Paralegal Studies Program, contact the Legal Studies department.

Courses of Instruction

SPAN 101
SPANISH I 3.0
For students with no previous Spanish. Training in understanding, speaking and writing the language. Meets the General Education Requirement - Foreign Language.

SPAN 102
SPANISH II 3.0
Training in understanding, speaking, reading, and writing the language. A continuation of Spanish I. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 101 or equivalent.

SPAN 103
SPANISH III 3.0
A continuation of Spanish II to strengthen the language skills of understanding, speaking, reading and writing of the language. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 102 or equivalent.

SPAN 104
SPANISH IV 3.0
A continuation of Spanish III to strengthen the skills of understanding, speaking, reading and writing of the language. Meets the General Education Requirement - Foreign Language.
Prerequisites: SPAN 103, 120 or equivalent.

SPAN 141
SPANISH GRAMMAR AND COMPOSITION I 3.0
This course is designed to give students an active command of the language by means of oral and written exercises, accompanied by a thorough review of the grammar, vocabulary, and idioms. Required for all majors.
Prerequisites: SPAN 140 or equivalent.

SPAN 142
SPANISH GRAMMAR AND COMPOSITION II 3.0
This course is designed to improve the student's mastery of the language through written and oral exercises accompanied by a review of advanced grammar. Required for majors.
Prerequisite: SPAN 141 or equivalent.

SPAN 151
MASTERPIECES OF SPANISH LITERATURE I 3.0
The course is designed to introduce the students to Spain's literary history through an analysis of its major works, movements, and cultural trends from the medieval period to the 18th Century. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 104, 140 or equivalent.

SPAN 152
MASTERPIECES OF SPANISH LITERATURE II 3.0
The course is designed to introduce the student to Spain's literary history through an analysis of its major works, movements, and cultural trends from the 18th century to the present. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 104, 140 or equivalent.

SPAN 161
MASTERPIECES OF SPANISH-AMERICAN LITERATURE I 3.0
The aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from pre-Columbian times to the latter part of the nineteenth century. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 104, 140 or equivalent.

SPAN 162
MASTERPIECES IN SPANISH-AMERICAN LITERATURE II 3.0
The aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from the beginning of Modernism to the Contemporary Period. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 104, 140 or equivalent.

SPAN 209
INTRODUCTION TO SPANISH PHONETICS 3.0
Spanish phonetics and phonemics: theory and practice; comparative analysis of Spanish and English phonology. The language laboratory is used extensively. Required for certification.
Prerequisites: SPAN 104 or 140.

SPAN 260
SPANISH CULTURAL HISTORY 3.0
The political, social, philosophical, literary and artistic ideas and institutions of Spain. Required for majors.
Prerequisite: SPAN 104 or 140.

SPAN 270
SPANISH-AMERICAN CULTURAL HISTORY 3.0
Development of the politics, art and philosophy of the Spanish-speaking nations of the western hemisphere. Required for majors. Meets the General Education Requirement - Foreign Language. Meets the Minorities Culture Requirement.
Prerequisite: SPAN 104 or 140.

SPAN 280
CUBAN CULTURAL HISTORY 3.0
A survey of the Cuban cultural development from the time of its discovery to the present. This course is especially designed to acquaint the Cuban born or the Cuban-American student with his cultural roots and to inform other interested Hispanic and Anglo-American students about the cultural heritage of Cuba. Meets the General Education Requirement - Foreign Language. Meets the Minorities Culture Requirement.
Prerequisite: SPAN 104, 140 or equivalent.

SPAN 309
SPANISH CONVERSATION 3.0
Practice in spoken Spanish through assigned topics and participation in discussions about daily life and world events; gives a competence in Spanish as an instrument of oral expression. Classes limited to 16 students. Required for certification. Native speakers of Spanish must substitute another elective.
Prerequisite: SPAN 142.

SPAN 316
SKILLS FOR BILINGUAL LEGAL PERSONNEL 3.0
Study of translation, interpretation, and cultural fluency as applied to the legal field, especially to the role of bilingual paralegals. Course will count as one of the legal specialty courses within the paralegal studies program—Hispanic specialization.
Prerequisites: Fluency in Spanish and English. Not for major credit.

SPAN 321
COMMERCIAL SPANISH 3.0
For students interested in the business field: styles of letter writing, business vocabulary, legal terminology. Emphasis on written fluency and expression.
Prerequisites: SPAN 141.

SPAN 350
TRANSLATING I 3.0
Introduction to the techniques of translating Spanish/English and English/Spanish. Student's translate actual documents and texts from a wide variety of fields in order to gain experience in methods of analysis, research and verification.
Prerequisites: SPAN 141, 142.

SPAN 351
TRANSLATING II 3.0
A continuation of Translating I. Materials chosen for translation reflect the career interests of the students in the class. Emphasis on professional ethics and the rudiments of translation theory.
Prerequisite: SPAN 350.

SPAN 352
PRACTICUM IN TRANSLATING 3.0
This course is designed to provide students with the practical experience of translating in semi-professional situations under faculty supervision.
Prerequisite: SPAN 350.

SPAN 360
HISPANIC COMMUNITY PROGRAM 3.0
Interdisciplinary approach to field work in an area of the Spanish-speaking communities in New Jersey: internships in law and psychology. Open to any student in the college with a working knowledge of Spanish. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: Instructor's permission.

SPAN 365
SPANISH NOVEL OF THE 20TH CENTURY 3.0
The modern novel in Spain beginning with the "Generacion Del '98."
Prerequisites: SPAN 161, 162.

SPAN 366
THE SPANISH-AMERICAN NOVEL 3.0
Development of the Spanish-American novel up to 1945.
Prerequisites: SPAN 161, 162.

SPAN 367
SPANISH-AMERICAN ESSAYISTS 3.0
The role of the essay in Spanish-American life and culture. Studies of selected modern essayists.
Prerequisite: SPAN 161, 162 or equivalent.

SPAN 368
CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3.0
Trends in the contemporary short story; the short story as an important genre in Spanish-American letters.
Prerequisites: SPAN 161, 162

SPAN 370
CONTEMPORARY SPANISH-AMERICAN POETRY 3.0
A study of contemporary Spanish-American poetry from its roots in modernism to the present day.
Prerequisites: SPAN 161, 162.

SPAN 371
SPANISH POETRY AND DRAMA OF THE 19TH CENTURY 3.0
A critical study of the main works of this century beginning with Duque de Rivas and Espronceda through Echegaray and Galdos.
Prerequisites: SPAN 151, 152.

SPAN 372
SPANISH PROSE OF THE 19TH CENTURY 3.0
The main works in Romanticism, Realism and Naturalism in 19th century Spain.
Prerequisites: SPAN 151, 152.

SPAN 375
STUDY ABROAD 3.0
Study at a university in a Spanish-speaking country to gain firsthand knowledge of the historical, social, economic and cultural life of the country. Credit by evaluation.
Prerequisite: Permission of department chairperson.

SPAN 380
SPANISH THEATRE OF THE TWENTIETH CENTURY 3.0
Principal trends of the Spanish theater from Benavente to the contemporary dramatists.
Prerequisites: SPAN 151, 152.

SPAN 385
COOPERATIVE EDUCATION 4.0-8.0
This course provides an opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior or senior standing, 3.00 cumulative grade point average in Spanish courses, department coordinator's permission, department chairperson's permission, and approval of office of cooperative education.

SPAN 410
ADVANCED SPANISH GRAMMAR 3.0
This course is a review of the most important structural features of Spanish, with special emphasis in those areas of interference with English structure which present the greatest difficulties to the student of Spanish. Required for certification.

SPAN 419
THE TEACHING OF SPANISH IN SECONDARY SCHOOLS 3.0
Values and aims in foreign language teaching, survey of methods, pronunciation, reading, grammar, reviews, realia, examinations, supervised study, etc., readings and discussions, lesson planning and demonstrations; and organization of material for student teaching. Required for certification.
Prerequisite: Senior standing.

SPAN 440
MIDDLE AGES IN SPAIN 3.0
Medieval Spanish masterpieces will be selected as basic topics around which the background that made them possible will be studied in an effort to bring to light the intricate relationship between the outstanding men of letters and their times.
Prerequisites: SPAN 151, 152.

SPAN 450
INTRODUCTION TO INTERPRETING 3.0
This course is designed to teach the student the specialized techniques of oral interpreting and to prepare them for a career in the field. Visits to observe professional interpreters at work will be arranged.
Prerequisites: SPAN 350, 351.

SPAN 452
TRANSLATING III 3.0
Under careful supervision, the student will prepare a translation project, usually consisting of the translation of a text of approximately 50 typewritten pages.
Prerequisites: SPAN 350, 351.

SPAN 460
EL QUIJOTE 3.0
The literary and social background, structure, themes and style of El Quijote as a masterpiece.
Prerequisites: SPAN 151, 152 or equivalent.

SPAN 466
CONTEMPORARY SPANISH-AMERICAN THEATER 3.0
The principal movements of the theater in Spanish America in the 20th century.
Prerequisites: SPAN 161, 162.

SPAN 469
THE DRAMA OF THE GOLDEN AGE 3.0
Representative dramatists of the Siglo de Oro: Lope de Vega, Tirso de Molina, Ruiz de Alarcon and Calderon de La Barca.
Prerequisites: SPAN 151, 152 or equivalent.

SPAN 470
SENIOR SEMINAR 3.0
Selected topics from Spanish and Spanish-American literature acquaint the student with the techniques of literary research.
Prerequisites: Senior majors only, permission of instructor.

SPAN 471
CONTEMPORARY TRENDS IN THE SPANISH-AMERICAN NOVEL 3.0
The contemporary novel in Spanish America, with emphasis on the "Nueva Novela."
Prerequisite: SPAN 162.

SPAN 472
PUERTO RICAN LITERATURE AND THOUGHT 3.0
Insight into the literature and philosophy of the Caribbean Hispanic world; contemporary Puerto Rican writers and the emergent Puerto Rican influence in the United States metropolitan areas. Meets the Minorities Culture Requirement.
Prerequisite: SPAN 161, 162.

SPAN 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Spanish. Open to students with a 3.00 cumulative average in at least 9 semester hours of Spanish electives.
Prerequisites: 24 hours of major Spanish credits.

SPAN 481
FIELD WORK IN HISPANIC COMMUNITY I 3.0
Required course in the academic minor in Hispanic community affairs. Student will devote 100 hours work in the area in which he chooses to concentrate: child care centers, mental health clinics, recreation activities, social agencies, etc. under the supervision of the MSC Passaic Center. In addition, the student must carry out an independent project by which he will demonstrate his ability to communicate with and engage the Hispanic community. Not for major credit.
Prerequisites: SPAN 360, instructor's permission.

ITAL 101
ITALIAN I 3.0
For students with no previous knowledge of Italian. This course imparts the basic foundations in the language. Meets the General Education Requirement - Foreign Language.

ITAL 102
ITALIAN II 3.0
Training in understanding, speaking, reading and writing the language. A continuation of Italian I. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 101 or equivalent.

ITAL 103
ITALIAN III 3.0
A continuation of Italian II to strengthen the four language skills. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 102 or equivalent.

ITAL 104
ITALIAN IV 3.0
A continuation of Italian III to strengthen the basic language skills through reading and composition. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 103 or equivalent.

ITAL 141
ITALIAN GRAMMAR AND COMPOSITION I 3.0
Gives students better control of the structure of the language through written and oral practice. Required for majors.
Prerequisite: ITAL 104 or equivalent.

ITAL 142
GRAMMAR AND COMPOSITION II 3.0
Mastery of the language through written and oral exercises; review of advanced grammar. Required for majors.
Prerequisite: ITAL 141.

ITAL 240
STUDIES IN ITALIAN LITERATURE ORIGINS:
TO 18TH CENTURY 3.0
Representative works from the "Scuola Siciliana" to the 18th century analyzed and discussed. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 104.

ITAL 241
STUDIES IN ITALIAN LITERATURE:
18TH THROUGH 20TH CENTURY 3.0
Representative works of the 18th through 20th centuries analyzed and discussed to train students in the analysis of library works. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 104.

ITAL 260
ITALIAN CULTURAL HISTORY 3.0
This course is designed to acquaint the students with the complex and rich texture of Italian civilization from its beginnings to the present. The development of Italian arts, music and theater as well as major social and political institutions, religion, etc. will be considered against the background of Italian history. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 104.

ITAL 275
ITALIANS AND ITALIAN-AMERICANS:
COMPARATIVE STUDIES 3.0
This course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work and moral codes. Comparisons are made with the experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach. (Taught in English). Cross-listed as GNHU 176 and EDFD 275.

ITAL 276
THE ITALIAN CINEMA 3.0
Development of the Italian cinema from neo-realism to today, in particular dealing with the following directors: Rossellini, Fellini, Desica, Zavattini, Bertolucci, Pasolini, Antonioni, Germi and Wertmueller. (Taught in English.) Cross-listed as GNHR 277.

ITAL 309
ITALIAN CONVERSATION 3.0
Practice in spoken Italian through assigned topics and discussions about daily life and world events. An opportunity to acquire an adequate vocabulary and competence in Italian as an instrument of oral expression.
Prerequisite: ITAL 104.

ITAL 321
COMMERCIAL ITALIAN 3.0
This course has been prepared for students majoring or minoring in Italian, or who can demonstrate appropriate linguistic ability in Italian, who wish to study the vocabulary, protocol and styles of correspondence, and documents common to the Italian-speaking business world.
Prerequisite: ITAL 142 or equivalent.

ITAL 350
TRANSLATING 3.0
The course will cover general theoretical and philosophical problems of translation and specific problems encountered in the actual translation of different types of texts ranging from literary works to daily communications.
Prerequisite: ITAL 142.

ITAL 351
ITALIAN LITERATURE OF THE 20TH CENTURY I 3.0
Particular attention to the contemporary period. Pirandello, Saba, Ungaretti, Montale and Quasimodo.
Prerequisite: ITAL 241.

ITAL 352
ITALIAN LITERATURE OF THE 20TH CENTURY II 3.0
Particular attention to the contemporary period. Pavese, Moravia, Silone, Vittorini and others.
Prerequisite: ITAL 241.

ITAL 361
ITALIAN LITERATURE OF THE 19TH CENTURY I 3.0
Neo-classicism, Romanticism, and Verismo. Foscolo, Manzoni and Leopardi.
Prerequisite: ITAL 241.

ITAL 362
ITALIAN LITERATURE OF THE 19TH CENTURY II 3.0
Neo-classicism, Romanticism, and Verismo. Carducci, Pascoli, Verga and D'Annunzio.
Prerequisite: ITAL 241.

ITAL 375
ITALIAN STUDY ABROAD 3.0
Study at an Italian university to gain first hand knowledge of the historical, social, economic and cultural life of Italy. Credit by evaluation.
Prerequisite: Permission of department chairperson.

ITAL 377
ITALIAN LITERATURE OF THE 18TH CENTURY 3.0
Representative works of the most important writers of this century: Goldoni, Parini, Alfieri, and others will be read and analyzed.
Prerequisite: ITAL 240.

ITAL 385
COOPERATIVE EDUCATION 4.0-8.0
This course provides an opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior or senior standing, 3.00 cumulative grade point average in Spanish courses, department coordinator's permission, department chairperson's permission, and approval of office of cooperative education.

ITAL 410
ITALIAN GRAMMAR FOR TEACHERS 3.0
A review of the most important structural features of Italian with special emphasis on those areas of interference with English which present the greatest difficulties for the student of Italian. Open to all Italian majors.
Prerequisite: ITAL 142.

ITAL 419
THE TEACHING OF ITALIAN IN SECONDARY SCHOOLS 3.0
Aims, objectives, and methods of teaching Italian in secondary schools; textbooks, supplementary teaching material, the language laboratory, tests, etc.
Prerequisites: ITAL 240, 241, senior standing.

ITAL 441
ITALIAN LITERATURE OF THE RENAISSANCE I 3.0
The development of humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. Emphasis on select works of Petrarch and Boccaccio.
Prerequisites: ITAL 240, 241.

ITAL 442
ITALIAN LITERATURE OF THE RENAISSANCE II 3.0
The development of humanism in ITALY through a study of significant works of representative authors of the 14th, 15th and 16th centuries. Selected readings from Lorenzo De Medici, Poliziano, Pulci, Boiardo, Ariosto, Tasso, Machiavelli and others.
Prerequisites: ITAL 240, 241.

ITAL 461
DANTE SEMINAR I 3.0
Medieval thought as represented in Dante's works. A selection of readings from Vita Nova, Convivio, Monarchia, analysis and exegesis of inferno.
Prerequisites: ITAL 240, 241.

ITAL 462
DANTE SEMINAR II 3.0
Medieval thought as represented in Dante's works. A selection of readings from Vita Nova, De Vulgari Elocquentia, Convivum, and Divina Commedia read and analyzed.
Prerequisites: ITAL 240, 241.

ITAL 469
ITALIAN LITERATURE OF THE 13TH AND 14TH CENTURIES 3.0
The most important representatives of the Sicilian and Tuscan schools, with particular attention to the Dolce Stil Novo and the works of Dante.
Prerequisite: ITAL 240.

ITAL 470
SENIOR SEMINAR 3.0
The techniques of literary research based on selected topics from Italian literature.
Prerequisite: Senior majors only.

ITAL 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Italian. Open to students with a minimum of 3.0 cumulative average in at least 9 hours of Italian electives.
Prerequisite: 24 hours of major Italian credits.

PORT 101
PORTUGUESE I 3.0
For students with no previous study of Portuguese. Training students to understand, speaking, read and write the language. Meets the General Education Requirement - Foreign Language.

PORT 102
PORTUGUESE II 3.0
A continuation of Portuguese I, furthering the training in the understanding, speaking, reading and writing of the language. Meets the General Education Requirement - Foreign Language.
Prerequisite: PORT 101, or equivalent.

PORT 103
PORTUGUESE III 3.0
Strengthening the basic language skills established in Portuguese II through advanced grammar and selected readings. Meets the General Education Requirement - Foreign Language.
Prerequisite: PORT 102 or equivalent.

PORT 104
PORTUGUESE IV 3.0
A continuation of Portuguese III, to strengthen basic language skills through advanced grammar and selected readings. Meets the General Education Requirement - Foreign Language.
Prerequisite: PORT 103, or equivalent.

PORT 141
PORTUGUESE GRAMMAR AND COMPOSITION I 3.0
Advanced course on Portuguese grammar to afford student an opportunity to practice in composition and conversation such points of structure and usage as sentence construction, agreement, prepositions, sequence of tenses, the subjunctive, and uses of Ser and Estar.
Prerequisite: PORT 104

PORT 142
PORTUGUESE GRAMMAR AND COMPOSITION II 3.0
This course continues the examination and review of grammatical structures and usage, and provides the students further opportunity to perfect their writing and speaking abilities in Portuguese.
Prerequisite: PORT 141.

PORT 160
MASTERPIECES IN PORTUGUESE LITERATURE 3.0
An intensive study of representative works by the most important authors of each major period in Portuguese literature. Meets the General Education Requirement - Foreign Language.
Prerequisite: PORT 104.

PORT 162
MASTERPIECES IN BRAZILIAN LITERATURE 3.0
An intensive study of representative works by the most important authors of each major period in Brazilian literature. Meets the General Education Requirement - Foreign Language.
Prerequisite: PORT 104.

PORT 221
COMMERCIAL PORTUGUESE 3.0
For students interested in the business field: technical vocabulary, styles, format and types of correspondence. Emphasis on written fluency and expression.
Prerequisite: PORT 142 or equivalent course.

PORT 260
LUSO-BRAZILIAN CULTURE 3.0
Portuguese and Brazilian literary masterpieces will be used as the basis for examining and understanding the distinctive cultural mores, values, and perceptions in the evolution of Portugal and Brazil. Meets the General Education Requirement - Foreign Language.
Prerequisites: PORT 142, 260.

PORT 350
TRANSLATING I 3.0
Techniques of translating Portuguese-English, English-Portuguese. Analysis of variations in connotation, emphasis, style, sentence structure, expression of ideas and images.
Prerequisite: PORT 142 or equivalent course.

PORT 385
COOPERATIVE EDUCATION 4.0-8.0
This course provides an opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior or senior standing, 3.00 cumulative grade point average in Spanish courses, department coordinator's permission, department chairperson's permission, and approval of office of cooperative education.



Speech and Theatre (Broadcasting, Speech Communication, Dance and Theatre, effective July 1, 1990)

SCHOOL OF FINE AND PERFORMING ARTS
Chairperson: Gerald Lee Ratliff

The Department of Broadcasting, Speech Communication, Dance and Theatre prides itself on its academic and professional curricula, the exceptional quality of its faculty and the success of its graduates. Because its programs feature both liberal arts and professional training—the cultural legacy which influences all worthwhile quality education—student majors are afforded ample opportunities to participate in meaningful learning experiences and are given increasing responsibility as their training proceeds.

The Bachelor of Arts degree has four concentrations for those interested in the broadbased, academic approach to liberal arts education: broadcasting, communication studies, theatre and teacher education. Each concentration requires a successful interview for admission to the program.

The Bachelor of Fine Arts degree program has three areas for those interested in pursuing a professional performance or design career. It includes a dance major, and within the theatre major it includes an acting concentration and a design/production theatre concentration. Each of these areas requires a successful audition or portfolio review for admission to the program.

The Department of Broadcasting, Speech Communication, Dance and Theatre also requires an interview for those interested in a minor in any of the following programs of study: communication studies, dance or theatre. The dates and requirements for department admission and interviews/auditions may be obtained from the Admissions Office or by calling the Department of Broadcasting, Speech Communication, Dance and Theatre at (201) 893-4217.

Special features of the academic program include specialized internships, performance ensembles, Mainstage Theatre Series, Telerad, Studio Theatre Series, Dance Repertory Company, Speech Labs and Studio Concert Series. The Department of Broadcasting, Speech Communication, Dance and Theatre is an accredited institutional member of the National Association of Schools of Theatre (NAST) and National Association of Schools of Dance (NASD). There are also three national honorary fraternities in the Department of Broadcasting, Speech Communication, Dance and Theatre: Theta Alpha Phi, Theatre; Alpha Epsilon Rho, Broadcasting; and Lambda Pi Eta, Communication Studies.

Speech and Theatre Major (all B.A. and B.F.A. concentrations)

Required Course (Basic Core) All majors and concentrations

			Semester Hours
STSP	103	Voice and Speech Improvement	3
*STTH	100	Introduction to Theatrical Medium	3

*Required of B.A. and B.F.A. Theatre

Concentration Requirements—B.A.
Concentration Requirements—B.F.A.
Department Electives

Speech and Theatre Major—B.A.
Concentrations Within the Program

Theatre Concentration

Semester Hours

Theatre Courses 18

STTH	208	Playscript Interpretation	3
STTH	210	Theatre History: Classical - Elizabethan	3
STTH	211	Theatre History: Restoration - Modern	3
STTH	361	Dramatic Literature	3
STTH	410	Seminar in Drama	3
STTH	411	Dramatic Criticism	3

*STTH 100 Introduction to Theatrical Medium is taken as part of the General Education Requirement.

Production Courses 15

STTH	123	Acting II	3
STTH	150	Concepts of Theatrical Design	3
STTH	330	Play Direction I	3
Theatre Practicum			6

*STTH 122 Acting I is taken as part of the General Education Requirement

Theatre Electives 9

To be chosen from the following:

STTH	238	Musical Comedy	3
STTH	360	Children's Theatre	3
STTH	363	Stage Combat	3
STTH	367	Mime	3
STTH	391	Playwriting	3
STTH	430	Play Direction II	3

Collateral Course Requirements 6

To be chosen from the following:

ENGL	234	American Drama	3
ENGL	254	English Drama: Beginnings to 1642	3
ENGL	263	Art of Drama	3
ENGL	353	Shakespeare: Comedies-Histories	3
ENGL	354	Shakespeare: Tragedies-Romances	3
GNHU	285	Mythology	3
MUSC	100	Introduction to Music	3

Free Electives 22

Communication Studies Concentration

Required Courses

Semester Hours

STSP	103	Voice and Speech Improvement	3
STSP	160	Oral Interpretation of Literature	3
STSP	172	Principles of Human Communication	3
STSP	234	Public Speaking	3
STSP	271	Interpersonal Communication I	3
STSP	334	Public Communication Techniques	3
STSP	374	Group Processes	3
STSP	375	Nonverbal Communication	3
STSP	438	Principles of Persuasion	3
STSP	442	Argumentation and Debate	3
STSP	478	Applied Communication	3

Collateral Course

A 3 semester hour Business Writing course is the required collateral course. Obtain the appropriate course information from the department.

Major Elective

Select 3 semester hours from the appropriate list to be obtained from the department.

Free Electives 34

Broadcasting Concentration

Required Courses

STBD	101	Introduction to the Broadcasting Medium	3
STBD	150	Audio Production	3
STBD	222	Television Practicum	1
STBD	240	Writing for the Broadcasting Media	3
STBD	241	Electronic Journalism	3
STBD	251	Television Production I	3
STBD	252	Television Production II	3
STBD	350	Television Production III	3
STSP	103	Voice and Speech Improvement	3

Select two:

STBD	315	Political Broadcasting	3
STBD	380	Cultural Impact of Broadcasting	3
STBD	460	Station Management	3
STBD	491	International Broadcasting	3

(Professional courses, by permission, also satisfy this requirement)

Major Electives

Select 9 semester hours from the appropriate list to be obtained from the department.

Free Electives 33

Teacher Certification

Students wishing to declare teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

In addition, the following requirements are part of the Department of Broadcasting, Speech Communication, Dance and Theatre teacher certification program.

Semester Hours

STSP	103	Voice and Speech Improvement	3
STSP	160	Oral Interpretation of Literature	3
STSP	172	Principles of Human Communication	3
STSP	201	Communication in the Classroom	1
STSP	234	Public Speaking	3
STSP	271	Interpersonal Communication I	3
STSP	302	Practicum in Speech Improvement	3
STSP	374	Group Processes	3
STSP	407	Methods of Teaching Speech and Theatre	3
STSP	441	Group Discussion	3
STTH	100	Introduction to Theatrical Medium	3
STTH	122	Acting I	3
STTH	150	Concepts of Theatrical Design	3
STTH	201, 202, 203	Theatre Practicum	4
STTH	210	Theatre History: Classical to Elizabethan	3
STTH	330	Play Direction I	3

Free Electives 11

Dance Major—B.F.A.

STDN	150	Production Elements-Dance	2
STDN	161	Choreography I	2
STDN	205	Rhythmic Analysis	3
STDN	261	Choreography II	2
STDN	265	Dance Improvisation	2
STDN	315	Dance History: Primitive to 1850	3
STDN	316	Dance History: 1850 to Present	3
STDN	321	Beginning Labanotation	3
STDN	322	Intermediate Labanotation	3
STDN	361	Choreography III	2
STSP	103	Voice and Speech Improvement	3
*Dance Technique: Modern			24
*Dance Technique: Ballet			24
Dance Practicum *or* Dance Repertory			4
Theatre Practicum			1
BIOL	240, 241	Mammalian Anatomy and Physiology I, II	3 ea.

*All dance technique classes in Modern and Ballet are by prior placement.

Theatre Collateral Course

A 3 semester hour theatre collateral course chosen from Costuming, Makeup or Lighting is required. Select from the appropriate list to be obtained from the department.

***Free Electives** 12

*No more than 4 semester hours may be in dance area.

Theatre Major—B.F.A.*
Concentrations Within the Program

*Students in the B.F.A. programs are subject to semester jury or portfolio review to determine if they should be permitted to continue in the pre-professional programs of training.

Acting Concentration

Required Courses

Speech/Movement/Production Courses

STBD	320	Acting for Television	3
STSP	103	Voice and Speech Improvement	3
STTH	122, 123	Acting I, II	6
STTH	222, 223	Acting III-IV	6
STTH	322, 323	Acting V-VI	6
STTH	125, 225, 325	Voice for the Performer I-II-III	9
STTH	330, 430	Play Direction I-II	6
STTH	120, 220	Movement for the Actor I-II	6
Theatre Practicum			8

Supportive Theatre Courses

STTH	100	Introduction to Theatrical Medium	3
STTH	150	Concepts of Theatrical Design	3
STTH	208	Playscript Interpretation	3
STTH	210	Theatre History: Classical to Elizabethan	3
STTH	211	Theatre History: Restoration to Modern	3
STTH	278	Stage Make-Up	3
STTH	362	Stage Dialects	3
STTH	371	History of Costumes: Primitive-Renaissance	3
OR			
STTH	373	History of Costumes: Renaissance-Modern	3

Theatre Electives 6

To be chosen from the following:

STTH	238	Musical Comedy	3
STTH	320	Movement for the Actor III	3
STTH	360	Children's Theatre	3
STTH	366	Stage Technique Combat	3
STTH	367	Stage Technique: Mime	3
STTH	391	Playwriting	3
STTH	435	Dramatic Workshop	3

Free Electives 14

Design/Production Concentration

Required Courses

Semester Hours

Core Course

STSP	103	Voice and Speech Improvement	3

Major Courses 39

STTH	150	Concepts of Theatrical Design	3
STTH	160	Drawing and Rendering I: Theatre	3
STTH	260	Drawing and Rendering II: Theatre	3
STTH	234	History of Decor: Ancient-Renaissance	3
STTH	235	History of Decor: Renaissance-Post Modern	3
STTH	245	Drafting I: Theatre	3
STTH	246	Drafting II: Theatre	3
STTH	252	Scene Design I	3
STTH	354	Scene Design II	3
STTH	258	Fundamentals of Stage Lighting	3
STTH	371	History of Costumes: Primitive-Renaissance	3
STTH	373	History of Costumes: Renaissance-Modern	3
STTH	458	Advanced Lighting	3

Supportive Theatre Courses 23

STTH	201	Theatre Practicum I	8
STTH	208	Playscript Interpretation	3
STTH	210	Theatre History: Classical to Elizabethan	3
STTH	211	Theatre History: Restoration to Modern	3
STTH	320	Play Direction I	3
STTH	440	Senior Project in Design/Technical Theatre	3
OR			
STTH	480	Seminar in Theatrical Conceptualization	3

Major Electives 20

To be chosen from the following:

STTH	278	Stage Makeup	3
STTH	352	Scene Painting	3
STTH	354	Repair and Maintenance of Theatrical Equipment	3
STTH	370	Costume Construction I	3
STTH	372	Costume Design I	3
STTH	403	Independent Study	1-3
STTH	450	Theatrical Sound	3
STTH	490	Internship in Theatre	4-16
ENGL	234	American Drama	3
ENGL	353	Shakespeare: Comedies-Histories	3
ENGL	354	Shakespeare: Tragedies-Romances	3
ENLT	374	Contemporary European Drama	3
ENLT	375	Modern Drama: Ibsen-O'Neill	3

***Free Electives** 12

*Not to be taken with the Broadcasting, Speech Communication, Dance and Theatre Department.

Minor Programs

Students wishing to pursue a minor in any academic program in the Department of Broadcasting, Speech Communication, Dance and Theatre and have it listed on their transcript must proceed as follows:

(1) Submit an application obtained from the Department office to the chairperson requesting status as a Minor Program student in the department.
(2) Schedule and complete an interview for acceptance into the minor program desired.
(3) Complete the Minor Program sequence.
(4) Request the Registrar, during the senior year of study, to certify on official college records the completion of a minor program of study.

Communication Studies Minor

Students who wish to pursue a minor program in the Department of Broadcasting, Speech Communication, Dance and Theatre and have this accomplishment listed on the transcript must proceed as follows:

(1) Submit an application which may be obtained from the Department office to the chairperson requesting status as a Minor Program student in the Department of Broadcasting, Speech Communication, Dance and Theatre.
(2) Schedule and complete an interview for acceptance into the Minor Program for Communication Studies.
(3) The minimum standard for admission to the program is grade point average of 2.75.
(4) Complete the Minor Program sequence.
(5) Request the Registrar, during the senior year, to certify on official records your completion of minor program of study.

			Semester Hours
STSP	103	Voice and Speech Improvement	3
STSP	172	Principles of Human Communication	3
STSP	234	Public Speaking	3
STSP	271	Interpersonal Communication I	3
STSP	374	Group Processes	
or			
STSP	441	Group Discussion	3
STSP	438	Principles of Persuasion	
or			
STSP	375	Nonverbal Communication	3

Dance Minor

STDN	150	Production Elements-Dance	2
STDN	161	Choreography I	2
STDN	254	Jazz I	2
STDN	280	Dance Practicum	1
STDN	315	Dance History: Primitive to 1850	
or			
STDN	316	Dance History: 1850 to Present	3
*Dance Technique: Modern			6
Dance Technique: Ballet			6

*Technique classes are by prior placement.

Speech and Theatre Minor

STSP	103	Voice and Speech Improvement	3
STTH	100	Introduction to Theatrical Medium	3
STBD	105	Fundamentals of Broadcasting	3
STSP	172	Principles of Human Communication	3
STDN	105	Dance Appreciation	3
STTH	160	Oral Interpretation of Literature	
or			
STTH	234	Public Speaking	3

Theatre Minor

Students who wish to pursue a minor program in the Department of Broadcasting, Speech Communication, Dance and Theatre and have this accomplishment listed on the transcript must proceed as follows:

(1) Submit an application which may be obtained from the Department office to the chairman requesting status as a Minor Program student in the Department of Broadcasting, Speech Communication, Dance and Theatre.
(2) Schedule and complete an interview for acceptance into the Minor Program for Theatre.
(3) The minimum standard for admission to the program is a grade point average of 2.75.
(4) Complete the Minor Program sequence.
(5) Request the Registrar, during the senior year, to certify on all official records your completion of a minor program of study.

			Semester Hours
STSP	103	Voice and Speech Improvement	3
STTH	100	Introduction to Theatrical Medium	3
STTH	122	Acting I	3
STTH	150	Concepts of Theatrical Design	3
STTH	201	Theatre Practicum	1
STTH	210	Theatre History: Classical to Elizabethan	
or			
STTH	211	Theatre History: Restoration to Modern	3
STTH	330	Play Direction I	3

Courses of Instruction

STBD 101
INTRODUCTION TO THE BROADCASTING MEDIUM 3.0
The development, organization and operation of radio and television in modern society; social and cultural influence of commercial and educational broadcasting.

STBD 105
FUNDAMENTALS OF BROADCASTING 3.0
The structure of the American broadcasting industry; broadcast production, including making radio and television commercials, and disc jockey format music programs. (For non-broadcast majors only).

STBD 140
WRITING FOR THE BROADCASTING MEDIA 3.0
Writing of continuity and dramatic materials for the broadcast media, including news, commercials, and drama, and practical work in ENG reporting and TV news producing. Student must concurrently enroll in STBD 222, Television Practicum.
Prerequisite: STBD 101. Fees for 1 1/2 hours of video taping.

STBD 150
AUDIO PRODUCTION 3.0
The production of special projects, documentaries and actualities including, studio and location recording techniques, editing of audio tape, program organization and techniques of interviewing.
Prerequisite: Majors only.

STBD 180
ELEMENTS OF THE PUBLIC MEDIA 3.0
Media study and analysis, examining mass media as social, economic, and political forces in contemporary cultures. Survey of the major mass media's structures, functions, operations, and problems.

STBD 222
TELEVISION PRACTICUM 1.0
Closed circuit television production; students participate in a minimum of 7 of the 14 weekly sessions. May be repeated.
Prerequisite: STBD 251 or 252 or 350.

STBD 241
ELECTRONIC JOURNALISM 3.0
Practical training in gathering, writing, and producing news radio and television. Development of ethical electronic journalistic standards and practices as reflected by major social issues.
Prerequisites: STBD 240, 252.

STBD 245
RADIO AND TELEVISION ANNOUNCING 3.0
To develop fundamental announcing skills necessary for performance of commercials, news, and other scripted programming for radio and television. Examination, performance, and evaluation of specific skills ranging from simple commercial and public service announcements and news scripts to more complex acting and interpretative exercises.
Prerequisites: STBD 101 or STTH 122, majors only.

STBD 251
TELEVISION PRODUCTION I 3.0
The tools and techniques of television production applied to news, commercial interview and demonstration programs.
Prerequisite: STBD 101.

STBD 252
TELEVISION PRODUCTION II 3.0
Group activity in the preparation and presentation of broadcast materials including plays, speeches, interviews, announcing, newscasting, music programming and advertising; the use of educational school broadcasting.
Prerequisite: STBD 251.

STBD 282
MEDIA AND CULTURE 3.0
The ways in which the broadcast media affect the mass culture and through it the values and mores of society. Includes history of mass culture and the mechanisms by which minority cultures and innovations can affect mass culture.

STBD 315
POLITICAL BROADCASTING 3.0
An historical-critical introduction to radio and TV as related to political figures, institutions and issues; J. L. Lewis, F. D. R., McCarthy hearings, Nixon-Kennedy debates and political conventions.

STBD 320
ACTING FOR TELEVISION 3.0
An introduction to the techniques necessary to adapt theatrical acting to television production situations, both multi-camera and single camera.
Prerequisites: STTH 122, STBD 252.

STBD 350
TELEVISION PRODUCTION III 3.0
Two television productions written, produced and directed; production and direction of remote broadcasts.
Prerequisites: STBD 251, 252.

STBD 353
CHILDREN'S TELEVISION 3.0
Current children's productions and examination of research on their affect/effectiveness; work on class productions designed for children.
Prerequisite: STBD 251.

STBD 403
INDEPENDENT STUDY 1.0-3.0
Proposals must be submitted for departmental approval prior to registration for the course.

STBD 450
ELECTRONIC FIELD PRODUCTION AND POST-PRODUCTION 3.0
Methods of electronic field production and post-production, including operation of color E.F.P. equipment and 3/4" color video editing equipment, and 1" video editing equipment, planning and development of shooting script; production of programs.
Prerequisites: STBD 350 and permission of instructor.

STBD 460
STATION MANAGEMENT 3.0
Economic support patterns, evolution of broadcast programming; determining community needs; on-air operations, station promotion and advertising; legal and ethical questions relating to broadcasting.
Prerequisites: STBD 251, 252.

STBD 470
SPECIAL STUDIES IN BROADCASTING 3.0
The theory and actual current practice in the business, managerial and/or legal aspects of the broadcasting industry as provided are practicing professionals in the field. This course may be repeated for credit.
Prerequisites: STBD 252, majors only instructor's permission.

STBD 490
INTERNSHIP: BROADCASTING 4.0
Advanced students may pursue a portion of their major work under the supervision of a professional or a contract company.
Prerequisite: Departmental eligibility and approval required prior to registration.

STBD 491
INTERNATIONAL BROADCASTING 3.0
Major broadcasting systems including those of England, Canada, Japan, Russia, Gemmany, France and Italy; Voice of America, Radio Free Europe, Missionary Radio, group listening and viewing systems.
Prerequisite: STBD 101.

STBD 495
ETHICS AND LAW OF MASS COMMUNICATION 3.0
A survey and anaiysis of major legal and ethical, issues in broadcasting and mass communication. Open to all.

STDN 105
DANCE APPRECIATION 3.0
Course is designed to inform the student about dance as a perfomming art form. Focus is on developing a critical framework for viewing various styles of dance performance. The course includes lectures, discussions, selected readings, films, video tapes, and live perfommances. Some experiential movement sessions. Meets the General Education Requirement - Fine and Perfomming Arts: Art Appreciation.

STDN 141
DANCE TECHNIQUE: MODERN I 2.0
Introduction to modern dance; techniques and basic elements may be repeated for credit.

STDN 142
DANCE TECHNIQUE: MODERN I ADVANCED 3.0
To be taken in conjunction with STDN 141. May be repeated for credit.
Prerequisite: STDN 141.

STDN 150
PRODUCTION ELEMENTS-DANCE 2.0
Introduction to technical productions related to dance. Survey of terminology, application of production principles, and aesthetic potential for production.

STDN 161
CHOREOGRAPHY I 2.0
Elements and methods of dance composition.

STDN 205
RHYTHMIC ANALYSIS 3.0
All basic rhythmic structures (basic note values, meter, etc.) covered and immediately applied to movement; games; notational assignments, and choreographic studies used to create understanding of the inherent rhythm within all basic dance movement.
Prerequisites: STDN 141, majors only.

STDN 253
DANCE TECHNIQUE: JAZZ I 2.0
An introduction to jazz technique; emphasis on style and the rhythmic aspects of jazz as a performing art.
Prerequisite: 2 semester hours of modern dance. Permission of instructor.

STDN 256
DANCE TECHNIQUE: JAZZ II 2.0
Advanced jazz technique; with expanded emphasis on style and the rhythmic aspects of jazz as performance art.
Prerequisite: Instructor's permission.

STBD 261
CHOREOGRAPHY II 2.0
Dance choreography with emphasis on small group works and solos, including form and structure.
Prerequisite: STDN 161.

STDN 265
DANCE IMPROVISATION 2.0
Basic ski]ls and problems in dance improvisation. May be repeated for credit.

STDN 280
DANCE PRACTICUM 1.0
Practical work in dance production: dancing, assisting, directing, accompanying, working on technical or house crew. Credit only for working through the entire production period. Work must be completed and report filed prior to registration in the course. May be repeated for credit.

STDN 315
DANCE HISTORY PRIMITIVE TO 1850 3.0
Dance as it has developed from primitive religious and ritualistic movement to the romantic era. Emphasis upon ancient fonms, courtly life, and the development of ballet. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

STDN 316
DANCE HISTORY: 1850 TO PRESENT 3.0
Study of dance in its historical context, with reference to development of ballet, modem dance, post-modemism, and jazz elements. Meets the General Education Requirement - Fine and Perfonming Arts: Art Appreciation.

STDN 321
BEGINNING LABANOTATION 3.0
The elementary principles of dance notation taught through immediate application to dance repertory. Designed for dancers to increase their understanding of movement through literacy. The course covers the fundamentals of the system: stepping, arm and leg gestures, jumping, turning, circling, floor plans and repeat signs.

STDN 322
INTERMEDIATE LABANOTATION 3.0
Advanced reading and writing of labanotation. Lessons cover pans of limbs, touch, slide, brush, torso tilts,bends and twists, kneeling, sitting, and specific parts of the torso.

STDN 341
DANCE TECHNIQUE: MODERN II 3.0
Further study and application of basic movement vocabulary, complex movement patterns, and style and performance focus. May be repeated for credit, by audition only.

STDN 343
DANCE TECHNIQUE: MODERN III 3.0
Continuation of STDN 341. May be repeated for credit.
Prerequisite: STDN 341.

STDN 345
DANCE TECHNIQUES: ETHNIC 2.0
The distinctive techniques customarily related to specific racial and cultural groups. The groups studied will vary from semester to semester. May be taken more than once. Meets the Minorities Culture Requirement.

STDN 351
DANCE TECHNIQUE: BALLET I 3.0
May be repeated for credit.
Prerequisite: 4 s.h. of modern dance or instructor's permission.

STDN 352
BALLET I ADVANCED 3.0
Further study of beginning ballet with emphasis on structural alignment, barre work and center floor exercises. May be repeated for credit.
Prerequisite: By audition only.

STDN 353
DANCE TECHNIQUE: BALLET II 3.0
Advauced technique forms with presentations by authorities from various ballet schools. May be repeated for credit.
Prerequisites: STDN 352, instructor's permission.

STDN 357
DANCE TECHNIQUE: BALLET III 3.0
Advanccd ballet technique with emphasis on individualized placement. Continuation of work with intricate, technically difficult sequences. Continuation of emphasis on musicality, line, dynamics, and stylistic refinement. May be repeated for credit.
Prerequisites: STDN 351, 352, 353 or instructor's permission.

STDN 361
CHOREOGRAPHY III 2.0
Exploring and applying performance concepts and techniques used in choreographing for groups of varying sizes.
Prerequisite: STDN 261.

STDN 403
INDEPENDENT STUDY 1.0-3.0
Proposals must be submitted for departmental approval prior to registration for the course.

STDN 480
SENIOR PROJECT 3.0
Individual creative or research project under supervision of dance faculty in senior year. By arrangement.
Prerequisite: Senior status.

STDN 485
DANCE REPERTORY 1.0-8.0
Dancing, choreographing, or providing technical assistance for a repertory company. Normally involves a touring company both within and outside the state for an extended period of time. May be repeated for credit.
Prerequisite: By audition only.

STDN 490
INTERNSHIP IN DANCE 4.0-15.0
Upper class undergraduate students may pursue a major portion of a semesters work under the supervision of an experienced professional practioner as an assistant in active, successful dance activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.

STSP 050
SPEECH IMPROVEMENT: FOREIGN SPEECH PATTERNS 3.0
Voice and speech problems; comparative phonetic analysis of other languages, noting intonation and inflectional differences; evaluation of progressive speaking and reading skills. For students requiring intensive training in spoken English. Credits not applicable toward graduation. Admission by department following evaluation testing.

STSP 101
FUNDAMENTALS OF SPEECH:
COMMUNICATION REQUIREMENT 3.0
Practical opportunities in a variety of speaking situations. Emphasis on skills, development of poise and confidence and effective communication. Distracting elements in voice or articulation considered, with additional work as needed in the speech lab. Designed for students not enrolled in a teacher certification program. Meets the General Education Requirement - Communication, Speaking/Listening.

STSP 103
VOICE AND SPEECH IMPROVEMENT 3.0
Development of voice and speech techniques and elimination of faults- procedures for improving voice and speech patterns. For speech and theater majors and minors, others by consent of the instructor.

STSP 104
PHONETIC STUDY OF SPEECH SOUND 3.0
The manner and place of articulation heard in American English. Use of international phonetic alphabet to transcribe speech both prescriptively and descriptively from live and recorded voices. Intonation and stress patterns of spoken English.

STSP 160
ORAL INTERPRETATION OF LITERATURE 3.0
Classroom performances of oral interpretation of various forms of literature followed by informal critiques and the development of a repertory. Meets the General Education Requirement - Electives, Creative Expression.

STSP 172
PRINCIPLES OF HUMAN COMMUNICATION 3.0
A survey of the process of human communication on all levels of interaction from intrapersonal to mass communication. Introduction to and an awareness of the key principles operating during the process of communication.
Prerequisite: Majors only.

STSP 201
COMMUNICATION IN THE CLASSROOM 1.0
Examine and develop communication options for enhancing teaching/learning in the classroom as they relate to student/teacher communication, communication and classroom instruction, and communication and the profession.

STSP 230
LISTENING 3.0
The development of critical, discriminative, appreciative and empathic listening skills; emphasis will be on listening theory/concept exploration, listening skill building, and experiential leaming through theory application.
Prerequisite: Majors only.

STSP 234
PUBLIC SPEAKING 3.0
Preparing and delivering effective, informative, persuasive and entertaining speeches: addressing the class; entering into formal critiques and moderating one program.

STSP 271
INTERPERSONAL COMMUNICATION I 3.0
Basic theory of interpersonal communication and its practical applications in one-to-one and small group communication situations; personal communication patterns as their affect self-perception and the perception of others.

STSP 272
INTERPERSONAL COMMUNICATION II 3.0
Current literature in the field of interpersonal communication and the relationship of the theory to communication experiences both in and out of class.
Prerequisites: STSP 271; majors only.

STSP 302
PRACTICUM IN SPEECH IMPROVEMENT 3.0
Evaluation, etrology and remedial techniques for minor voice and dictation problems common to a general school population; self motivating materials for junior high and high school. For all speech and theater majors planning to teach. Three class hours, one hour for observation and practice.
Prerequisites: STSP 103, 104, 160, 234.

STSP 334
PUBLIC COMMUNICATION TECHNIQUES 3.0
Contemporary styles of speaking relating to current issues and events; primary focus on television/radio styles of announcing. Work to develop flexibility in using the various styles.
Prerequisites: STSP 172; majors only.

STSP 363
READER'S THEATER 3.0
The close union of interpretation of literature and theater; adaptation and editing of the various genres of literature; participation in public performances of readers theater. Meets the General Education Requirement - Electives Creative Expression.
Prerequisites: STSP 160, STTH 122.

STSP 374
GROUP PROCESSES 3.0
The affective domain of a group's function: variables like cohesiveness, blocking behavior, withdrawal, etc., as related to the development and maintenance of productive interaction.
Prerequisites: STSP 172, 271; majors only.

STSP 375
NONVERBAL COMMUNICATION 3.0
Non-linguistic system on the communication experience. Effects of such non-verbal aspects (physical behavior, spatial relationships, context, environment, etc.) upon the sending and receiving of verbal messages.
Prerequisites: STSP 172; majors only.

STSP 388
SEMINAR IN PUBLIC RELATIONS 3.0
Provide background theory and practical experience in public relations. Writing forms and styles, project planning, and campaign strategy as they relate to public relations are emphasized.
Prerequisites: STSP 271; majors only.

STSP 403
INDEPENDENT STUDY 1.0-3.0
The proposals must be submitted for departmental approval prior to registration for the course.

STSP 407
METHODS OF TEACHING SPEECH AND THEATRE 3.0
Speech education at each grade level: approaches, problems materials, textbooks and techniques; trends in instruction integration of speech with other fields.
Prerequisites: Permission of instructor; majors only.

STSP 435
SPEECH ARTS ACTIVITY 1.0-3.0
Credit is given for supervised speech and activity. Consent of department chairman required. Credit by arrangement.

STSP 438
PRINCIPLES OF PERSUASION 3.0
Theory and application of persuasive principles in various fields of society with focus on communication strategies for awareness, understanding, evaluation, and change of social forces in media, education, govemment, business, religion, politics, relationships, and industry.
Prerequisites: STSP 172, major's only.

STSP 441
GROUP DISCUSSION 3.0
Principles of small group discussion with a task problem-solving orientation; leading and panicipating in private and public discussions; introduction to parliamentary procedure.

STSP 442
ARGUMENTATION AND DEBATE 3.0
Principles of argumentation; characteristics of propositions, definitions of temms, logical organization, evidence, research and oral techniques, structure of tournament debating; practice in argumentation and debate of current significant issues.
Prerequisites: STSP 172, 234; majors only.

STSP 478
APPLIED COMMUNICATION 3.0
Identification of practical applications and implications for the theories of human communication is explored with specific focus on communication careers through interviewing techniques, personal applications and applications, and career panels with communication professionals. A pragmatic approach allows a synthesis of learned communication theory and applied communication practice.
Prerequisites: STTP 172, 271; majors only; senior standing; permission of instructor.

STSP 490
INTERNSHIP: COMMUNICATION STUDIES 4.0-16.0
Upper-class undergraduate students may pursue a major portion of a semesters work under the supervision or an experienced professional practitioner as an assistant in active, successful speech activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.
Prerequisite: Departmental approval.

STTH 100
INTRODUCTION TO THE THEATRICAL MEDIUM 3.0
All forms of theatrical literature and productions including drama, ballet, mime, opera, circus, musical comedy and mass media. Meets the General Education Requirement - Fine and Perfomming Arts: Art Appreciation.

STTH 105
ACTING - NON B.F.A. 3.0
Basic introduciton to acting for the non-major; involving exploration of one's self and experiencing inwardly; deepening the personal involvement and significance of actions; improvisation and exercises for perception, self-awareness and justification. Meets the General Education Requirement - Electives, Creative Expression.

STTH 110
ACTING I - NON B.F.A. 3.0
Extension of basic acting for the non-major; including scene study, improvisation, characterization and script analysis.
Prerequisite: STTH 105.

STTH 115
ACTING I - B.F.A. 3.0
Work on the actor's instrument; use of the senses, involvement with the environment and other actors; concentration, honesty and an understanding of actions, objectives and obstacles; improvisation as a step toward playing scenes; one scene and one monologue developed. B.F.A. Acting majors only.

STTH 120
MOVEMENT FOR THE ACTOR I 3.0
Basic movement for the actor in terms of development of characterization, physicality and projection of mood and attitude.

STTH 125
VOICE FOR THE PERFORMER I 3.0
The voice skills necessary for the actor. Intensive work directed toward classic and modern styles in stage diction.
Prerequisite: STSP 103, instructor's permission.

STTH 130
ACTING II - B.F.A. 3.0
Advanced work on the actor's instrument through work on scenes of comedy, serious drama and mixed genre. Interpreting the written scene in terms of action and character intention; development of listening and reacting; development of subtext through inner dialogues and images; and use of props. Four scenes of varying types developed. B.F.A. Acting majors only.
Prerequisite: STTH 115.

STTH 150
CONCEPTS OF THEATRICAL DESIGN 3.0
A general introduction to theatrical design concerned, primarily, with developing a sense of theatrical style and form. Problems of translating a dramatic text into an overall design concept, and the evolution into specific setting, lighting, or costume designs.

STTH 160
DRAWING AND RENDERING I: THEATRE 3.0
A drawing and painting course aimed at developing skills necessary for rendering stage designs on paper. Perspective drawing, basic watercolor technique, color theory, and architectural sketching are included.
Prerequisite: STTH 150.

STTH 201
THEATRE PRACTICUM I 1.0
On or off stage experience in departmental productions. May be repeated.

STTH 202
THEATRE PRACTICUM II 1.0
Continuation of STTH 201.

STTH 203
THEATRE PRACTICUM III 1.0
Continuation of STTH 202.

STTH 208
PLAY SCRIPT INTERPRETATION 3.0
An evaluation of the play script in terms of the literary, technical, and production elements essential to mounting it for performance. A consideration of both the fictional and the functional elements of playscripts.

STTH 210
THEATRE HISTORY: CLASSICAL TO ELIZABETHAN 3.0
The development of the theater from the classical Greek through the Elizabethan period. Attention to plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations; oral reports, lectures and demonstrations.

STTH 211
THEATRE HISTORY: RESTORATION TO MODERN 3.0
The development of the theater from the restoration through the modern period. Attention on plays, playwrights, theater architecture, scenery, costuming, styles of acting and presentations of the period; oral reports, lectures and demonstrations.

STTH 220
MOVEMENT FOR THE ACTOR II 3.0
Advanced movement for the actor in terms of the relationship of movement to characterization and the need to cultivate physical and emotional relationships in body movement.

STTH 222
ACTING III - B.F.A. 3.0
Introduction to the creation and use of psycho-physical action (method of physical actions) to generate physical and emotional involvement; further development of objectives and actions, work with the senses and the body's musculature to justify and project the character through advanced scene work.
Prerequisite: STTH 115 or instructor's permission.

STTH 223
ACTING IV - B.F.A.: CHARACTERIZATION 3.0
Extending the range of characterizaiton by modifying and controlling physical and vocal characteristics, and by studying how clothing, manners and modes of other periods affect behavior. Exercises in animal and object controls and in using adjustments application in scenes.
Prerequisite: STTH 222 or instructor's permission.

STTH 225
VOICE FOR THE PERFORMER-II 3.0
Intermediate study in the voice skills necessary for performance in a professional setting. Advanced work in voice production and vocal characterization directed toward performance styles and stage presentation.
Prerequisite: STTH 125 and instructor's permission.

STTH 234
HISTORY OF DECOR: ANCIENT-RENAISSANCE 3.0
The major architectural and decorative periods of the world and their influences and role in the theater as applied to the designer, from ancient to Renaissance decor.

STTH 235
HISTORY OF DECOR: RENAISSANCE-POST MODERN 3.0
The major architectural and decorative periods of the world and their influences and roles in the theatre as applied to the designer from the Renaissance to Post-modern.
Prerequisite: STTH 234.

STTH 238
MUSICAL COMEDY 3.0
Production styles, techniques and dramatic conventions used in the musical theater in relation to direction, music, dance, and design. The student will be expected to study all areas of the musical.
Prerequisites: STTH 150, 330.

STTH 245
DRAFTING I: THEATRE 3.0
Techniques in theatrical drafting that explore the mechanics of drafting through the solution of practical problems in floor planning, front and rear elevations; the use of different building techniques, materials and structures.
Prerequisite: STTH 150.

STTH 246
DRAFTING II: THEATRE 3.0
Advanced study in building, rigging, and stress problems related to theatre design and production. Advanced drafting techniques for theatrical designs.
Prerequisites: STTH 150, 245.

STTH 250
TECHNICAL THEATRE 3.0
An intensive study of technical theatre including the interpretation of design and technical drawings, scenic construction, rigging, and theatre organization.
Prerequisites STTH 150 or instructor's permission.

STTH 252
SCENE DESIGN I 3.0
Interpretation or dramatic texts towards the realization of effective stage designs. Styles and principles will be explored as well as the complete process which translates visual concepts into stageworthy designs.
Prerequisites: STTH 150, 160 or instructor's permission.

STTH 258
FUNDAMENTALS OF STAGE LIGHTING 3.0
The functions of light on stage: the use of lighting equipment. Laboratory work done in the Memorial Auditorium.
Prerequisites: STTH 150, 160.

STTH 260
DRAWING AND RENDERING II: THEATRE 3.0
Advanced drawing and rendering for theatrical stage design. Includes color work and work with dye and ink.
Prerequisite: STTH 160.

STTH 278
STAGE MAKE-UP 3.0
Make-up materials and their uses: creating corrective and character makeup, mustaches and beards for a cast research or creative experience to compile a practical resource file.

STTH 320
MOVEMENT FOR THE ACTOR III 3.0
Advanced movement for the actor in terms of the relationship of movement to space and form and the need to cultivate physical and emotional relationships in body movement. Advanced exercises and assignments related to movement in playscripts and in theatrical contexts.

STTH 322
ACTING V - B.F.A.: STYLES 3.0
Scenes from plays of various periods; studying the manners and mores and theatrical conventions of each selected period in order to create a heightened reality when approaching period scene work.
Prerequisite: STTH 222, 223.

STTH 324
ACTING VI - B.F.A.: PROFESSIONAL AUDITIONS 3.0
The business side of acting; auditions, pictures and resumes, agents, and showcases. Students work on finding and preparing appropriate monologues for professional auditions.
Prerequisite: STTH 223, 322, junior or senior Theatre major.

STTH 325
VOICE FOR THE PERFORMER-III 3.0
Advanced study in the voice skills necessary for performance in a professional setting. Intensive work in voice production and vocal development necessary to develop selected performance styles and techniques.
Prerequisites: STTH 225 and instructor's permission.

STTH 330
PLAY DIRECTION I 3.0
Principles of direction; selection and casting; exercises in composition and movement; scenes directed for class criticism; preparation of prompt book.
Prerequisites: STTH 122, 150.

STTH 345
SCENE DESIGN II 3.0
A continuation of Stage Design I with emphasis upon specific forms of drama as well as opera and musical comedy.
Prerequisite: STTH 252.

STTH 352
SCENE PAINTING 3.0
The theory and practice of the general techniques of the scenic artist and the methods and materials used in this discipline.
Prerequisites: STTH 150, 242.

STTH 354
REPAIR AND MAINTENANCE OF THEATRICAL EQUIPMENT 3.0
Practical study in the repair and maintenance of theatre equipment, including machines, lights, and tools.
Prerequisite: STTH 150.

STTH 360
CHILDREN'S THEATRE 3.0
Principles and techniques of children's theatre as applied in classroom, theater and speech therapy programs paralleling the mental, physical and emotional levels of children. Student participation in planning and presenting demonstrations with children.

STTH 361
DRAMATIC LITERATURE 3.0
Dramatic literature from the classical to the modern in terms of genre, theme, and performance potenti .l; dramatic literature as it reflects its time.

STTH 362
STAGE DIALECTS 3.0
Lecture and laboratory demonstration on sound substitutions, rhythms, and inflectional patterns used in creating effective stage dialects. Performance in standard British, Cockney, Irish, Scottish, French, Italian, German, and Spanish dialects.

STTH 366
STAGE TECHNIQUE: COMBAT 3.0
Stage use of sword-play, hand-to-hand combat and combat choreography with Broadsword, Epee, Cudgel and staff among others (generally offered as one of two modules with STTH 367).
Prerequisite: STTH 122.

STTH 370
COSTUME CONSTRUCTION I 3.0
Studies the practical function of the costume shop and the techniques and crafts used in the execution of costumes for the stage. Production work is included.

STTH 371
HISTORY OF COSTUMES: PRIMITIVE-RENAISSANCE 3.0
The evolution of costume and the development of tailoring social, economic and political influences on silhouette and ornamentation, from the Primitive to the Renaissance.

STTH 372
COSTUME DESIGN I 3.0
A study of basic costume design for the stage, emphasizing the interpretation of dramatic texts in terms of characterization. Basic figure drawing and fabric study are included and the collaborative process which translates ideas to finished design will be explored.
Prerequisite: STTH 371.

STTH 373
HISTORY OF COSTUMES: RENAISSANCE-MODERN 3.0
The evolution of costume and the development of tailoring social, economic and political influences on silhouette and ornamentation from the Renaissance to the Modern.

STTH 391
PLAYWRITING 3.0
The creation of an original script suitable for production. The cause to effect play will be investigated as well as newer trends in theater. Investigation of marketing possibilities, and the preparation of scripts for submission. Students should have a background in the technique and artistic aspects of the theater.

STTH 403
INDEPENDENT STUDY 1.0-3.0
Proposals must be submitted for departmental approval prior to registration for the course.

STTH 407
INTERNSHIP: DESIGN/PRODUCTION THEATRE 4.0-12.0
Practical experience as a member of a professional, semiprofessional or educational theatre on or off campus. Work as a technician or as an assistant to the designer or producer.
Prerequisite: Instructor's permission.

STTH 410
SEMINAR IN DRAMA 3.0
Dramatic theory as it relates to production and performance. A series of research projects, selected by the instructor to guide students in applying contemporary principles of play production to styles of performance comprehensive and intensive study of playscripts and dramatic theories as they find expression in performance.
Prerequisite: STTH 361.

STTH 411
DRAMATIC CRITICISM 3.0
Dramatic principles of theme, content, and characterization as they relate to production and performance; evaluation and analysis of the basic ingredients of dramatic criticism as related to the critic, the director, the scenic artist and the performer.
Prerequisite: STTH 361.

STTH 430
PLAY DIRECTION II 3.0
Advanced play direction with emphasis on the director's analysis of the script and working with performers; each participant will direct a variety of scenes and a one act play.
Prerequisite: STTH 123, 330.

STTH 433
SHAKESPEARE WORKSHOP 3.0
Analysis and performance of scenes from Shakespearian histories, comedies, and tragedies.
Prerequisites: STTH 223, 330.

STTH 435
DRAMATIC WORKSHOP 3.0
An advanced course combining students as actors or directors engaged in research and performance of classical and contemporary styles of theatre in a "works-in-progress" atmosphere. Material will be drawn from the full spectrum of theatre.
Prerequisite: Two courses in directing and or acting

STTH 436
DRAMATIC WORKSHOP II 3.0
A continuation of Dramatic Workshop providing advanced research, exploration and performance for acting- directing experimentation with various modes such as readers' theater, story theater and environmental theater. Problems of adaptation of plays of one period into other periods and of non-theatrical material into a theatrical form.
Prerequisite: STTH 435.

STTH 440
SENIOR PROJECT IN DESIGN/TECHNICAL THEATRE 3.0
Topics for investigation in the area of design and technical theatre.
Prerequisites: Majors only instructor permission.

STTH 442
THEATRICAL MODEL MAKING 3.0
Three-dimensional design in theatrical model making. Exploration of the creative design process in working with construction models executed in paper, cardboard and clay.
Prerequisites: STTH 245, 252.

STTH 445
STAGE DESIGN III 3.0
Advanced work in design including model-making and exploration of non-proscenium forms of presentation.
Prerequisites: STTH 150, 242.

STTH 450
THEATRICAL SOUND 3.0
Theatrical uses of sound in production approaches to theatre. Primary focus on the role sound plays in enhancing theatrical design and production.
Prerequisites: Majors only, instructor's permission.

STTH 458
ADVANCED LIGHTING 3.0
Advanced lighting skills in theatre and the related areas of dance, opera and the musical comedy.
Prerequisites: STTH 345, 455.

STTH 480
SEMINAR IN THEATRICAL CONCEPTUALIZATION 3.0
Active reinforcement of the concept of communal effort and thought in the theater through the creation of student awareness of current artistic and/or philosophical conflicts within the discipline. Limited to B.F.A. candidates in their senior year.

STTH 490
INTERNSHIP IN THEATRE 4.0
Upper-class undergraduate students may pursue a major position of a semester work under the supervision of an experienced professional practitioner as an assistant in an active, successful theater, dance, speech or media center program. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration. Credit by arrangement.

STTH 495
THESIS (SENIOR) 3.0
Senior project in an area of student's primary field of specialization; theatre history, dramatic literature, criticism or performance theory. Requires intensive research project demonstrating the student's ability to apply the theories and principles revealed by his project to performance or production.
Prerequisites: Senior standing and permission of instructor.

Technology

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Martin L. Greenwald

An interest in the areas of graphic communication technology, building systems and construction technology, and manufacturing and materials processing technology should lead the student to the department of Technology. The Bachelor of Science degree can be earned in order to prepare for a career in Technical Management/Industrial Supervision or Technology Teacher Education.

Industrial Technology and Education Major

Required Courses

			Semester Hours
ISED	101	Technology and Culture: Past, Present and Future	3
INDS	202	Design: Fundamentals and Problem Solving	3
INDS	203	Technical Graphics	3
INDS	204	Communication Technology	3
INDS	205	Scientific Principles of Technology	3
INDS	207	Construction Technology	3
INDS	208	Energy, Power and Transportation	3
INDS	261	Introduction to Manufacturing and Materials Processing	3

Advanced Specialization
Select 22 semester hours of 300 and 400 level courses from within the department offerings (INDS) in consultation with program advisor.

Concentration Program Within the Major

Industrial Technology

Required Courses

			Semester Hours
INDS	460	Cooperative Industrial Internship	8
INDS	461	Management and Production	3
MGMT	311	Management Process and Organizational Behavior	4
MKTG	340	Introduction to Marketing	3

Select 9 semester hours from the following:

ACCT	200	Accounting for Non-Business Majors	3
CMPT	108	Computers and Programming	3
MGMT	316	Human Resource Management	3
MGMT	431	Middle and First Line Management	3
MKTG	342	Sales Concepts and Practices	3
PSYC	240	Industrial and Organizational Psychology	3

(It is required that the student consult with the program advisor for course selection.)

Electives (General) 6

Teacher Education Professional Sequence

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Special Program Requirements

Vocational-Technical Teacher Education Program

This is a non-degree program that offers courses and guidance for students who want certification to teach vocational-technical subjects in secondary schools. Candidates must have a high school diploma or equivalency, experience in a trade, industrial occupation, or profession they would like to teach, and approved training in the field. General background courses, professional education and supervised in-service teaching are all included. For further information, call the department.

Courses of Instruction

INDS 202
DESIGN: FUNDAMENTALS AND PROBLEM SOLVING 3.0
Creativity, brainstorming, problem-solving and analysis-consideration application to practical problems in designing with materials.

INDS 203
TECHNICAL GRAPHICS 3.0
All aspects of industrial drafting practices are surveyed with particular emphasis on its role in the industrial and business world.

INDS 204
COMMUNICATION TECHNOLOGY 3.0
Traces the development of communication technology, examines and gives experiences in visual, acoustical and electronic communication technologies and their effect on our society.

INDS 205
SCIENTIFIC PRINCIPLES OF TECHNOLOGY 3.0
The practical implications of physical concepts on technology will be studied, emphasizing how technical machines work.

INDS 207
CONSTRUCTION TECHNOLOGY 3.0
A general survey of the construction industry. Each of the systems required to build a structure is reviewed. Stress is placed on the practical application of these systems.

INDS 208
ENERGY, POWER AND TRANSPORTATION 3.0
A broad overview of our energy sources and our use of controlled energy (power). Transportation is presented by surveying the operation of our country's system and studying the five most important types in detail.

INDS 242
HOME MAINTENANCE AND REPAIR 3.0
A survey of practical home maintenance and basic repair methods designed to meet the needs of the layman will be studied through laboratory experiences. Emphasis will be placed upon consumer knowledge, home maintenance and repair, and simple construction techniques.

INDS 248
HISTORICAL PERSPECTIVES OF AMERICAN INDUSTRIES-FIELD STUDY 3.0
A study of selected clusters of industry with an emphasis on the historical development of technology. The course is intended to contribute to the understanding of our technical society and to appeal both to majors and non-majors. The program will consist primarily of visitations to sites representative of past and contemporary American industries. Meets the General Education Requirement - Social Science, American/European History.

INDS 249
ALTERNATE ENERGY 3.0
Unconventional energy conversion systems that do not rely on standard uses of common fossil fuels. Typical areas of study will include oil shale, tar sands, solar energy photovoltaic conversion systems, wind energy, nuclear fission and fusion, geothermal and hydroelectric energy conversion. Meets the General Education Requirement - Contemporary Issues.
Prerequisite: INDS 208.

INDS 261
INTRODUCTION TO MANUFACTURING AND MATERIALS PROCESSING 3.0
A comprehensive introduction to various methods for producing metallic, polymetric, and ceramic materials. The content is organized around the major families of processes: casting and molding, forming, separating, conditioning, assembling, and finishing.

INDS 310
INDUSTRIAL PLASTICS 3.0
Plastic industry, its operations and materials, principles, concepts, machine processing, material selection and equipment use and safety.

INDS 311
PLASTICS MOLDING AND PROCESSING 3.0
Manipulative processes; injection, compression, transfer and rotational molding. Process procedure, cycle preparation and adjustment, material selection and use, machine set-up and function, sequential operation, mold use, maintenance and safety.
Prerequisite: INDS 310.

INDS 312
MACHINE TOOL TECHNOLOGY 3.0
Machine metalwork layout, machining and control laboratory activities.
Prerequisite: INDS 261.

INDS 320
GRAPHIC DESIGN IN PRINT MEDIA 3.0
All aspects of graphic arts design from initial concept to finished artwork. Included are studio methods of layout, composition, classification and selection of type.

INDS 321
TYPOGRAPHY AND TYPESETTING 3.0
The various aspects of basic typography, including type design, page layout, and standard measuring techniques will be investigated. Included in this investigation will be an overview of available electronic page composition programs designed to work with both dedicated typesetters and microcomputers.

INDS 322
DIGITAL COMMUNICATION 3.0
Digital communications will focus on the conversion of information into digital structure and the transmission of information within networks comprised of intelligent machines and humans.

INDS 331
INTRODUCTION TO BUILDINGS AND SYSTEMS 3.0
An overall survey of building technology including their evolution, construction types, engineering, materials, systems, and pathology of deterioration.

INDS 332
FACILITY MAINTENANCE MANAGEMENT 3.0
The analysis and application of maintenance and operation management of facilities including buildings, utilities, equipment and grounds. Content will focus on understanding the various operations and functions of building maintenance and systems for carrying them out. Students will engage in practical field exercises relating to the development and operation of systematic maintenance management plans and program.

INDS 333
ARCHITECTURAL DRAFTING AND DOCUMENTATION 3.0
The student will explore the functions of a residential architect. Emphasis will be placed on a working knowledge of building construction practices, residential planning and design, and architectural drafting techniques.

INDS 340
TECHNICAL WRITING 3.0
Preparation of technical material for publication. Prior registration requested.
Prerequisite: ENGL 105 or course in similar field.

INDS 341
ELECTRONIC FUNDAMENTALS 3.0
Circuit conditions; analysis of electronic concepts, theoretically and experimentally.
Prerequisite: INDS 205.

INDS 344
OPERATIONS MANAGEMENT 3.0
A fundamental course regarding production and service operations management. Included are process design, category planning and scheduling, inventory management, work force management, quality control, forecasting, materials handling and ordering, employee motivation and work methods.

INDS 347
SURVEY OF MODERN INDUSTRY 3.0
Visitation of representative industry to study and evaluate management, labor, materials, processes and products of industry.

INDS 413
INTRODUCTION: COMPUTER NUMERICAL CONTROL PROCESSES IN MANUFACTURING 3.0
Introduction to computer numerical control (CNC) processes in manufacturing is a study of CNC programming and applications and how it is utilized in modern manufacturing operations.

INDS 414
PLASTICS PROCESSING TECHNOLOGY 3.0
Advanced technology in injection, compression, transfer and epoxy molding; extrusion, lamination and casting. Skill development, mold and die-making, operational procedure, processes and material application.
Prerequisites: INDS 310 or 311.

INDS 423
OFFSET LITHOGRAPHY 3.0
Photo-lithographic process. Copy preparation, camera techniques, line and halftone photography, densitometry, stripping, platemaking and presswork.
Prerequisite: INDS 204.

INDS 424
ADVANCED OFFSET LITHOGRAPHY 3.0
Advanced technical information and skills. Photographic chemistry, advanced halftone techniques, posterization, duo-tones, trio-tones, screen calibration development, color negative development, enlarging and densimetric control.
Prerequisite: INDS 423.

INDS 425
COLOR PROCESSING TECHNIQUES 3.0
Students will learn the principles of color processing techniques and produce color photographs, transparencies and full color printed reproductions.

INDS 434
ENVIRONMENTAL ARCHITECTURE 3.0
This course is directed specifically toward all students with interest in energy conservation and the environment and for current and future homeowners. Emphasis will be placed on energy sources in housing, designing energy efficient houses, heating and cooling systems and retrofiting older homes.

INDS 435
ARCHITECTURAL DESIGN 3.0
Basic aesthetic, functional and structural design, residential and light building structure. Environmental control, lighting, wiring, waste and utility systems.

INDS 436
RESIDENTIAL CONSTRUCTION 3.0
Residential construction materials and processes.
Prerequisite: INDS 206.

INDS 443
COMPUTER-AIDED DRAFTING: AN INTRODUCTION 3.0
Students will study the command structure of AutoCas to create, modify and manage CAD drawings and designs. Various applications in graphic communication will be explored with practical hands-on lab sessions. Experience with computers or technical graphics is not required.

INDS 445
COST ESTIMATING IN MANUFACTURING AND CONSTRUCTION 3.0
The fundamental study of cost estimating as it applies to the manufacturing and construction industries. Basic principles and concepts are considered that are common to all field.

INDS 446
MICRO-COMPUTER TECHNOLOGY 3.0
Manufacturing, design and consumer product application of computer technology will be emphasized. Hands-on experience with micro computers, plotters, digitizers, printers, and other peripherals will aid the student in developing an appreciation for the less publicized applications of the computer. Software, firmware and hardware will be illustrated and discussed, especially as related to interfacing. Numerical controlled machining and robotics will also be studied.

INDS 450
WORKSHOP/SEMINAR IN INDUSTRIAL EDUCATION AND TECHNOLOGY 3.0
Opportunity is afforded students to study selected current issues, concerns and/or problems in the various fields of industry, education and technology.

INDS 451
INDEPENDENT STUDY IN INDUSTRY 1.0-3.0
Individual study problem with faculty guidance and sponsorship. Application required.
Prerequisite: Departmental permission.

INDS 461
MANAGEMENT AND PRODUCTION 3.0
Mass production techniques, market analysis, manufacturing and production control.

ISCP 460
COOPERATIVE INDUSTRIAL INTERNSHIP 4.0 or 8.0
The cooperative education experience integrates academic study with supervised, non-professional employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a faculty coordinator and the office of cooperative education, is responsible for completing the terms of a predetermined learning contract. Course may be taken for 4 or 8 credit.

ISED 101
TECHNOLOGY AND CULTURE: PAST, PRESENT, AND FUTURE 3.0
A chronological study of technology and its impact on world culture. Emphasis will be placed on the influence of the western hemisphere during the last 300 years and the world of the future. Meets the General Education Requirement - Contemporary Issues.

ISED 362
PRINCIPLES AND METHODS OF TEACHING INDUSTRIAL EDUCATION 3.0
Professional preparation for student teaching. Emphasis on planning courses of study, lesson plans, behavioral objectives, methodology and evaluation.

ISED 463
IN-SERVICE SUPERVISED TEACHING SEMINAR 8.0
For full-time, regularly-employed teacher who has all degree requirements except student teaching. Prior registration required.

ISVC 401
PRINCIPLES AND PHILOSOPHY OF VOCATIONAL-TECHNICAL EDUCATION 3.0
This course presents a brief history of the social, economic, and technical forces which stimulated the development of Vocational-Technical Education. The philosophy upon which the Vocational-Technical Program is built will be extensively examined. The principles and practices of the areas and types of vocational-technical education that function are studied. Organization and function of the State and Federal Division of Vocational Education and the significant trends and developments are an important part of the course.

ISVC 404
INSTRUCTIONAL MATERIAL DEVELOPMENT IN VOCATIONAL-TECHNICAL EDUCATION 3.0
Designed to assist the vocational-technical teacher to develop teaching aids of functional value to their field; opportunity for the teacher to gain skill and proficiency in the use of conventional audio-visual teaching aids, and in the development of job, operation, information and assignment sheets.

ISVC 405
CURRICULUM CONSTRUCTION IN VOCATIONAL AND TECHNOLOGY EDUCATION 3.0
This course is concerned with the practical skills utilized in the design and construction of vocational and technology curricula. The course emphasizes the relationships between related and laboratory curriculum content. Students will prepare practical, useful materials applicable to current and future school, classroom, and laboratory situation.

ISVC 406
TEACHING VOCATIONAL AND TECHNOLOGY EDUCATION 3.0
Emphasis will be placed upon professional preparation for teaching vocational subjects and technology education. Areas of study will include planning a course of study, demonstration of technical materials and equipment, safety in the laboratory, record keeping, class management and use of instructional materials and evaluational techniques. Several microteaching experiences will be undertaken by the students.

ISVC 408
VOCATIONAL-TECHNICAL IN-SERVICE SUPERVISED TEACHINGS AND SEMINAR 8.0
A two-part course which covers an academic year. The first part involves the student in a biweekly seminar and on-the-job supervision by the seminar instructor. The second part provides for on-the-job supervision and individual conferences. Both parts of the course must be completed before credit is awarded.

ISVC 409
VOCATIONAL GUIDANCE 3.0
Designed to acquaint teachers in vocational-technical education with the guidance program to assist them in the guidance functions of classroom and shop.

OTHER ACADEMIC PROGRAMS

College Honors Program

Director: Rhoda K. Unger

The College Honors Program provides a core of academic excellence stimulates a sense of community, and establishes a lively and creative force in support of the academic and intellectual interests of outstanding students. Participants share a core curriculum of seven interdisciplinary seminars which fulfill various components of the undergraduate general education requirements. Honors sections of regular courses will also be available to participants as well as to selected students who are not participants in the college honors program itself.

Admission to the College Honors Program as a freshman requires that the applicant meet two of the following criteria:

1. Rank in the top 10% of high school class.
2. A score of at least 600 on either the verbal or math SAT.
3. A combined SAT score of at least 1150.
4. An unusual ability in the creative arts or exceptional leadership or other extraordinary accomplishment.

Students interested in applying to the program must fill out an application form that includes a brief essay. Selected candidates may be interviewed by a member of the Honors Program Advisory Board as part of the admission process. The number of students in the program is limited to sixty per entering class. Completion of the program's requirements becomes a part of the student's official transcript and is noted on the student's diploma. It is expected that students in the College Honors Program will choose to be involved in existing honors programs within their major disciplines. Courses in the junior year are designed to facilitate this transition.

Required Courses

Freshman Year

HONP 100
HONORS SEMINAR IN GREAT BOOKS AND IDEAS, PART I 3.0
Focus on the significant masterworks and intellectual foundations of western civilization. Original source materials will be read. Meets the General Education Requirement - Communication, Writing, Reading.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 101
HONORS SEMINAR IN GREAT BOOKS AND IDEAS, PART II 3.0
Continues to focus on the significant masterworks and intellectual foundations of western civilization. Original source materials will be read. Meets the General Education Requirement - Communication, Writing, Reading.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 102
HONORS SEMINAR IN 20TH CENTURY CIVILIZATION, PART I 3.0
Focus on important political, economic, and technological events of the twentieth century, and their implications for the individual and the society. Meets the General Education Requirement - Contemporary Issues.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 103
HONORS SEMINAR IN 20TH CENTURY CIVILIZATION, PART II 3.0
Continues to focus on important political, economic, and technological events of the twentieth century, and their implications for the individual and the society. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: For College Honors Program students only or by permission of instructor.

Sophomore Year

HONP 201
HONORS SEMINAR IN THE FOUNDATIONS OF THE CREATIVE PROCESS 3.0
This course is designed for second-year honors program students. It makes no assumptions that they have a background in the creative arts. This course will acquaint them with the language and process of the creative arts from both an historical and contemporary perspective. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.
Prerequisite: For College Honors Programs students only or by permission of instructor.

HONP 202
HONORS SEMINAR ON SOCIAL ANALYSIS 3.0
Comparison of various social sciences in terms of theory, methodology and forms or analysis. A particular topic will be focused upon each semester. Meets the General Education Requirement - Social Science, Survey Course.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 210
HONORS SEMINAR IN SCIENCE I 4.0
Interdisciplinary course in the natural and physical sciences consisting of seminars and laboratory experience. This is the first of a two-semester requirement for honors program students. Enrollment will be limited to MSC Honors Program students. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: For College Honors Program students only or permission of instructor.

HONP 211
HONORS SEMINAR IN SCIENCE II 4.0
Interdisciplinary course in the natural and physical sciences consisting of seminars and laboratory experience. This is the second of a two-semester requirement for honors program students. Enrollment will be limited to MSC Honors Program students. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: For College Honors Program students only or by permission of instructor.

Junior Year

HONP 301
HONORS SEMINAR ON WAYS OF KNOWING 3.0
An interdisciplinary perspective on the nature of knowledge, including philosophical definitions of knowledge, the historical interaction of science with philosophical views of knowledge, the social context of knowledge, and the influence of values on the nature and development of knowledge.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 302
HONORS SEMINAR ON METHODS OF SCHOLARSHIP AND RESEARCH 3.0
The course will aim to familiarize students with the methods used in contemporary research in the humanities and the natural and social sciences. There are two goals which may provide a tension to the course: preparing students to embark on a major research project in their own discipline and making them sensitive to the issues in doing scholarship in other disciplines.
Prerequisite: For College Honors Program students only or by permission of instructor.

General Humanities

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Coordinator: Timothy T. Renner

Humanistic studies are concerned with the critical and expressive awareness of the meaning of human experience, and the many ways in which mankind has seen itself in the past and sees itself today. Among social, scientific, philosophical and religious studies, in literary and artistic expression, the humanities seek the common awareness of the human problem and the varying attempts at its solution.

The major in General Humanities is recommended for students who have a broad interest in liberal arts. The major begins with two introductory courses, General Humanities I and II, which together offer an overview of important themes, periods, subject areas, and modes of inquiry within the humanities. Next, the student takes a series of selected courses in five of the traditional humanistic disciplines. At this stage, the student, in consultation with a faculty advisor, identifies a special topic which will be the subject of the senior thesis or other project and plans a portion of the courses taken within the various disciplines so as to include four which make up a concentration centering around the topic of interest. Finally, the student prepares a senior thesis or other project.

General Humanities Major

Required Courses

	Semester Hours
GNHU 201, 202 General Humanities I, II	6
GNHU 499 Senior Humanities Seminar (to accompany writing of senior thesis)	4

Electives (Major)

Students will take a total of 24 semester hours in selected courses in the five areas listed (detailed lists of appropriate courses within each area may be obtained from the faculty advisor). Four courses out of the total eight will be carefully chosen so as to provide the student with background on a humanistic topic which is interdisciplinary in nature and which will be the subject of the senior essay.

a. History: One course from two of the following groups:
   (1) Earlier Western
   (2) Later Western
   (3) Non-Western
   total 6

b. Philosophy and Religious Studies: One course from each group:
   (1) Philosophy
   (2) Religious Studies
   total 6

c. Literature: One course from each group:
   (1) Comparative Literature
   (2) National Literature
   total 6

d. Art History: One course 3
e. Music History: One course 3
Grand total: 34

Courses of Instruction

GNHU 201
GENERAL HUMANITIES I (to 1400) 3.0
A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from the ancient world to the Middle Ages.

GNHU 202
GENERAL HUMANITIES II (from 1400) 3.0
A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from Renaissance to the present.

GNHU 480
INDEPENDENT STUDY IN GENERAL HUMANITIES 1.0-4.0
Directed independent study and research in general humanities. May be elected in lieu of GNHU 499, Senior Humanities Seminar, in years when the seminar is not being offered.
Prerequisite: Permission of the program coordinator.

GNHU 499
SENIOR HUMANITIES SEMINAR 4.0
A seminar for majors. The student will develop, in a senior thesis or other creative project, an interdisciplinary approach to an idea or problem arising from the concentration.
Prerequisite: Senior standing as a General Humanities major.

New Jersey School of Conservation

SCHOOL OF PROFESSIONAL STUDIES
Director: John J. Kirk

The New Jersey School of Conservation is one of the largest college operated environmental education centers in the world and is operated for the State of New Jersey by Montclair State College through the School of Professional Studies. The 240-acre facility is located in Stokes State Forest.

Through its varied programs, the School of Conservation aims to develop in students an understanding of the environmental problems that threaten life on the planet and to review the possible solutions to these problems.

The School's activities and facilities are designed to handle both short- and long-term learning experiences. These range from two-and one-half-, four-, or five-day programs for 10,000 elementary and secondary school students to graduate courses for over 300 students of the state colleges, private colleges, and Rutgers, The State University. In addition, since the School is operationally a part of Montclair State College, an increasing number of the College's curriculum planners are looking toward creating or modifying courses to be offered for Montclair State credit through the School. The School of Conservation also conducts workshops, which earn Montclair State College graduate/undergraduate credit, for elementary and secondary school teachers and for adults interested in the teaching and learning of environmental concerns. The faculty of the School have organized and developed one day workshops for community action organizations.

Courses of Instruction

CNFS 460
PRACTICUM IN ENVIRONMENTAL EDUCATION 3.0
This course is designed to provide teachers and supervisors with a background of experience and knowledge which will enable them to organize and conduct conservation education programs in their own communities. Using an extensive library of conservation education materials, students formulate teaching units, lists of teaching aids, and projects suitable for use in their own communities. Participating in conservation projects with the children in the demonstration camp furnishes a practical background for research and discussion. (For camp staff only.)

CNFS 495
WORKSHOP ON UTILIZING NATURAL ENVIRONMENTS 1.0
To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers to increase their knowledge of as well as skills in the techniques of incorporating the physical, biological, and sociocultural components of the environment in their curricula will be emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging from 15 to 20 specific subject areas.

CNFS 496
FIELD STUDY IN HUMANITIES AND
NATURAL SCIENCE 1.0
Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.

CNFS 497
FIELD STUDIES IN SOCIAL STUDIES AND
OUTDOOR RECREATION 1.0
Provides an understanding of how outdoor pursuits and social studies may be taught using natural environments to develop environmental sensitivity. Does not meet resident requirement.

CNFS 499
ENVIRONMENTAL IMPACT OF
RECREATION ON NATURAL AREAS 3.0
Students will examine the impact of recreation on natural areas in four of New Jersey's major eco-systems: Upland Forest, Pine Lands, Salt Marsh and Barrier Beach. On-site visits to a variety of natural areas will allow for comparison and contrast of heavily used sites with those which have been relatively undisturbed. Students will inventory the natural resources of each site and will use their inventories to develop "recreation impact statements." First hand knowledge of the four ecosystems will be gained by camping in or near each area.
Prerequisite: Special fee.

Teacher Education Program

SCHOOL OF PROFESSIONAL STUDIES
Director: Robert Pines

The Teacher Education Program at Montclair State College reflects a balance between a liberal education and professional preparation. The program which is coordinated by the Director of Teacher Education, combines general education, subject-matter (major) specialization and professional training. The professional component addresses four broad areas: the curriculum, student development and learning, the classroom and the school, and effective teaching skills. Special emphasis is placed upon the research findings related to effective teaching. The specific objectives of the program are described in the *Teacher Education Handbook,* which may be obtained in the department of Curriculum and Teaching. The requirements for teacher certification are subject to changes in state regulations and college policy. Although students will be notified of program changes, they should regularly consult with departmental and education advisors as well as the Office of Teacher Education in Room 006 of Chapin Hall, telephone (201-893-4262).

The Teacher Education Program provides a sequence of professional courses and field experiences leading to teacher certification upon passing the required National Teacher Examination, while the student majors in a particular field of interest. Field experiences are collaboratively coordinated by the college and specially designated "clinical schools." The graduate is certified to teach in all New Jersey public schools and is legally qualified to teach in other member states of the Interstate Certification Compact.

A. General Education

Students interested in teacher certification complete the same general education program as other students at the College. It should be noted, however, that certain courses meet both general education *and* teacher education requirements. These are noted in the section on the professional sequence below, and are recommended if you wish to complete your program with the minimum number of semester hours.

B. Special Requirements

Students who intend to prepare for teaching should fulfill the following special requirements prior to formal admission to the certification program:

Human and Intercultural Relations Requirement

This requirement focuses on social interaction, intergroup relations, and the culture of minorities in the inner city. A course must be selected from the following list. All of these courses also fulfill the Minorities Culture Requirement. Certain courses listed below may simultaneously be used to meet General Education Requirements, *if they are included in the General Education Requirement Appendix of Courses.*

Anthropology
ANTH 200 Urban Anthropology
ANTH 311 Anthropology of American Subcultures
Curriculum and Teaching
CURR 423 Teaching in Urban Schools
Economics
ECON 215 The Economics of Social Problems
Educational Foundations
EDFD 445 Puerto Rican Children in Mainland Schools
English
ENGL 238 Afro-American Writers
Environmental, Urban and Geographic Studies
EUGS 313 Urban Geography
History
HIST 217 History of Black Americans
Home Economics
HEFM 445 The Inner City Family
Management
MGMT 332 Minorities in Business
Political Science
POLS 308 Ethnic Politics in America
POLS 312 Black Politics in America
Psychology
PSYC 246 Psychology of the Black Experience
Reading and Educational Media
MEDI 355 Media in Intercultural Communication
Sociology
SOCI 202 Racial and Ethnic Relations
SOCI 205 Black Family
SOCI 311 Urban Sociology
Spanish and Italian
SPAN 360 Hispanic Community Program

Speech Proficiency Requirement—Competence in speech must be demonstrated by completing the course Fundamentals of Speech: Communications Requirement or by passing an examination administered by the Speech and Theatre Department.

Examination in Physiology and Hygiene—This requirement may be satisfied by presenting college study in such areas as biology, personal health problems, community health, school health, family health, health counseling, nutrition or health administration or by taking an examination administered by the State Department of Education.

C. Admission to Teacher Education

All students who intend to prepare for teaching must make formal application for admission to the teacher preparation program. It is recommended that students apply at the beginning of the second semester of the sophomore year. Application forms may be obtained by interested students from the Office of Teacher Education, School of Professional Studies. The application will be screened by a faculty committee and only those applicants who meet the admission criteria will be accepted.

It is important that a student make the decision to apply for admission to the program (admission to the college is not admission to the Teacher Education Program) as soon as possible. If application is made later than the end of the sophomore year, there may be some difficulty in completing the professional sequence in four years.

The criteria for admission are:

1. Three recommendations, at least two from faculty members who know the applicant. One may be a former high school teacher who knows the applicant.
2. Cumulative overall average of at least 2.50 and a cumulative average of 2.50 with no failing grades in the major or in courses in the professional sequence are required for eligibility for student teaching.* (Some departments require a higher major average. Consult your advisor for information.)
3. Speech proficiency prerequisite.
4. Successful completion of prerequisite courses (see below).
5. Successful completion of major course requirement.
6. Evidence of active interest in community affairs and teaching.
7. Approval of a screening committee with representation from the School of Professional Studies and the student's major field.
8. Clearance by the Student Personnel Division.
9. Passage of "Basic Skills Requirement" at the college.
10. A self-rating scale.
11. Any special criteria (e.g. portfolio review writing sample).

When a student is notified of admission to the program, advisors from the professional-education sequence and the major will be assigned who will help the student plan the sequence properly. Further information regarding the process of admission to teacher education can be secured from the Office of Teacher Education.

NOTE: Some probational admissions are made. Consult the Office for information.

D. Professional Sequence for Teacher Education Certification

Five semesters including the semester of acceptance are required to complete the professional sequence. This is the general pattern for teacher certification programs. Some require additional methods courses. You are encouraged to consult a departmental advisor early in your program.

FRESHMAN YEAR

*PSYC 101 General Psychology I: Growth and Development ..... 3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)

SOPHOMORE YEAR

*PSYC 200 Educational Psychology ..... 3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)
*CURR 200 Initial Field Experience ..... 1 Semester Hour

(Apply To Teacher Education Program at this point.)

JUNIOR YEAR

CURR 410 Intermediate Field Experience in Education ..... 1 Semester Hour
Departmental Methods Course ..... 3-4 Semester Hours
EDFD 220 Philosophical Orientation to Education ..... 3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR PHILOSOPHY COURSE)
CURR 400 Teacher School and Society ..... 3 Semester Hours
CURR 409 Teaching for Critical Thinking
OR
EDFD 409 Teaching for Critical Thinking
OR
READ 409 Teaching for Critical Thinking ..... 3 Semester Hours
A course in teaching reading under advisement ..... 3 Semester Hours

SENIOR YEAR

Professional Semester Package
including student teaching ..... 13 Semester Hours
CURR 435 Effective Teaching/Productive Learning ..... 2 Semester Hours
CURR 401 Senior Field Experience ..... 1 Semester Hour
CURR 402 Seminar in Professional Education ..... 1 Semester Hour
Departmental Seminar ..... 1 Semester Hour
CURR 411 Supervised Student Teaching ..... 8 Semester Hours

**Prerequisite Courses*

Note: You are urged to consult frequently with a departmental advisor, the Office of Teacher Education or the Department of Curriculum and Teaching.

E. National Teacher Examination

The New Jersey State Board of Education requires candidates for *instructional* certificates to take sections of the National Teacher Examination and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Education, Room 006, Chapin Hall.

Graduate and Special Programs

1. Certification Program (Post-Baccalaureate)—A program leading to a New Jersey teaching certificate for holders of the B.A. degree who do not wish to enter a graduate degree program.
2. Master of Arts in Teaching—Designed for liberal arts graduates who seek certification as teachers. Special options, including one with a focus on Philosophy for Children, are available.
3. The Master of Education degree—Designed for the teacher who wishes to upgrade classroom knowledge and skills.

NOTE: Consult the graduate catalog for information.

Toxicology

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

In our modern world we are exposed to an increasingly complex array of chemical substances. Determining what effects these substances could have on our health and environment, their underlying molecular mechanisms and the probability of their occurrence is the task of a toxicologist. Toxicology is a multidisciplinary field that draws freely upon the basic and biomedical sciences and uses the latest techniques to answer unique and challenging problems. The toxicologist identifies and tests chemical substances for adverse effects and interprets the results, evaluating potential hazard or safety. Among the areas in which toxicologists make these evaluations are: the risks and safety of chemical exposure at the workplace, from consumer goods and from food additives; problems stemming from drug use and abuse; and the risks from environmental pollution.

Toxicology majors are required to complete extensive collateral courses in biology, chemistry, mathematics and physics concurrent with, or prior to registering for, the advanced toxicology courses which start in their junior year. An introductory toxicology course is available without prerequisites. The summer between the junior and senior year is devoted to a cooperative education traineeship in industry or a regulatory agency and provides job experience for the future graduate.

Throughout the program there is an emphasis on the interdisciplinary nature of toxicology, including toxicology courses, research, seminar and a menu of upper level biology and chemistry electives selected because of their relevance to several specialties of the field.

Prospective applicants should have completed high school courses in chemistry, biology and physics, as well as four years of high school mathematics. A minimum of four academic years and two summers will be required to complete this program. Students who successfully complete the program will receive a Bachelor of Science from Montclair State College.

Toxicology Major

Required Courses

			Semester Hours
TOXI	100	Introduction to Toxicology	1
TOXI	310	Principles of Toxicology I	3
TOXI	311	Principles of Toxicology II	3
TOXI	350	Standard Methods in Toxicology Testing	2
TOXI	409	Externship in Toxicology Research (Cooperative Education)	4
TOXI	450	Pathology for Toxicologists	4
TOXI	460	Toxicology Seminar	2

Required Collateral Courses

			Semester Hours
BIOL	140	Biology of the Cell	4
BIOL	131	General Zoology II	4
BIOL	350	Microbiology	4
BIOL	414	Genetics	5
BIOL	440	Mammalian Anatomy and Histology	4
BIOL	442	Human Physiology	4
CHEM	120, 121	General Chemistry I, II	8
CHEM	230, 231	Organic Chemistry I, II	6
CHEM	232, 233	Experimental Organic Chemistry I, II	4
CHEM	310	Analytical Chemistry	5
CHEM	470	Biochemistry I	3
MATH	122, 221	Calculus I, II	8
MATH	242	Biostatistics	3
Select one sequence:			
PHYS	193, 194	College Physics I, II	8
OR			
PHYS	191, 192	General Physics I, II	8

Required Electives

Select 8 semester hours from the appropriate list of Biology and Chemistry courses to be obtained from the Toxicology Program Office.

Courses of Instruction

TOXI 100
INTRODUCTION TO TOXICOLOGY 1.0
Survey of the scope and fields of toxicology including current events, legislation, toxicity testing techniques and career opportunities.

TOXI 310
PRINCIPLES OF TOXICOLOGY I 3.0
Examination of the major classes of toxic agents by identifying characteristics of their toxicity and factors which modify this outcome.

TOXI 311
PRINCIPLES OF TOXICOLOGY II 3.0
Survey of the effects of agents on target organs and physiologic systems including teratology, mutagenicity; carcinogenicity; toxicity of the central nervous, musculoskeletal, reproductive, cardiovascular, hematopoietic, endocrine, and immune systems; hepatic, renal, and ocular toxicity.
Prerequisite: TOXI 310.

TOXI 350
STANDARD METHODS IN TOXICOLOGY TESTING 2.0
This is a hands-on laboratory experience in a toxicology facility. It will include dosing and observation methods for "pre-clinical safety evaluation testing" as defined in a variety of regulatory testing protocols accepted by the USA and international governments. It will also provide familiarity with the good laboratory practice regulations and their applications.
Prerequisites: TOXI 310; toxicology majors only.

TOXI 409
EXTERNSHIP IN TOXICOLOGY RESEARCH (COOPERATIVE EDUCATION) 4.0
Full or part-time work,as defined by the cooperating scientist and cooperative education, in an established laboratory for the duration of one semester. Special written assignments will be required for receipt of grade.
Prerequisites: TOXI 310; toxicology majors only.

TOXI 410
RESEARCH SEMINAR IN TOXICOLOGY LITERATURE 1.0
An intensive research of the toxicology literature related to a limited specific problem in toxicology. The study is to be made in depth and presented in a written research report.
Prerequisite: 8 s.h. of toxicology and 20 s.h. of collateral biology and chemistry courses, toxicology majors only.

TOXI 420
PRINCIPLES OF PHARMACOLOGY FOR THE TOXICOLOGIST 4.0
Lecture and laboratory course for toxicology majors introducing fundamental pharmacological principles applied to toxicology, receptor concept; dose-response relationship; fate of chemicals in the organism; kinetics; factors influencing toxicity; chemical interactions; methods of toxicity evaluation.
Prerequisite: TOXI 311.

TOXI 430
FORENSIC TOXICOLOGY 1.0
Introduction to the medicolegal aspects of exogenous chemical involvement in human fatalities.
Prerequisite: TOXI 311.

TOXI 431
FORENSIC TOXICOLOGY INTERNSHIP 1.0
Supervised on-site experience in a forensic toxicology laboratory.
Prerequisites: TOXI 430, 440, majors only.

TOXI 440
CLINICAL TOXICOLOGY 2.0
Lecture and laboratory course for toxicology majors introducing the application of analytical chemical methodology for the identification and quantification of drugs and exogenous chemicals in human body fluids.
Prerequisites: Admission to the toxicology component of the program and CHEM 320 or equivalent.

TOXI 441
CLINICAL TOXICOLOGY INTERNSHIP 4.0
Supervised on-site training in a clinical toxicology laboratory.
Prerequisites: TOXI 440, majors only.

TOXI 450
PATHOLOGY FOR TOXICOLOGISTS 4.0
Lecture and laboratory course for toxicology majors introducing basic concepts of disease mechanisms and disease processes particularly related to mammalian species commonly used in toxicological evaluation.
Prerequisite: TOXI 311.

TOXI 460
TOXICOLOGY SEMINAR 2.0
This is a survey course of the specialty fields in toxicology and how they relate to the basic toxicological principles learned in the major. The course includes but is not limited to, surveys of topics such as forensic toxicology, marine toxicology, clinical toxicology, oncology research, regulatory affairs, plant toxicology, environmental toxicology and immunotoxicology.
Prerequisite: TOXI 310.

TOXI 470
TOXICOLOGY INDEPENDENT RESEARCH 1.0
Individual laboratory research, under the guidance of an advisor on a specific problem in toxicology. A written report of the laboratory research is to be presented.
Prerequisites: 8 s.h. of toxicology and 30 s.h. collateral biology and chemistry courses. Toxicology majors only; 2.75 G.P.A. in major requirements.



INTERDISCIPLINARY MINORS

African-American Studies Minor (18 semester hours)

Director: Saundra

The undergraduate minor in African-American studies is an interdisciplinary academic program designed to be complementary to any of the undergraduate majors of Montclair State College. The African-American and African syntheses within the context of African, American and European culture are presented with their transcultural, interethnic and intellectual traditions—providing an appreciation of the heritage, arts, sciences and values on non-European and non-Euro-American groups. The African-American Studies program will also provide for Black students a greater knowledge of self, self-respect and self-esteem. African-American studies for other students will build knowledge and awareness of African-American history, African-American culture and African-American people. Students who are interested in completing the requirements of the minor are urged to consult with the director about their programs.

Required Courses

Select three semester hours from each category for a total of six required semester hours.

			Semester Hours
Category A			
HIST	108	Introduction to African Civilization	3
HIST	217	History of Black Americans	3
Category B			
PSYC	246	Psychology of the Black Experience	3
SOCI	202	Racial and Ethnic Relations	3

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the director of African-American Studies.

Courses of Instruction

Anthropology

ANTH 301
PEOPLES OF AFRICA 3.0
Analyzes diversity in the lifestyles of representative cultures. Discussion of prehistory, culture change, and contemporary problems in Sub-Saharan Africa. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

English

ENGL 238
AFRO-AMERICAN WRITERS 3.0
Major Afro-American writers from colonial times to the present. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

ENLT 366
AFRICAN MYTH AND LITERATURE 3.0
The nature of the sub-Sahara experience and vision through African myths and literary works within the context of culture, criticism and theory. Meets the Minorities Culture Requirement.

Environmental, Urban and Geographic Studies

EUGS 412
GEOGRAPHY OF SUB-SAHARA AFRICA 3.0
Topical and regional study of Africa. Examines soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

Fine Arts

ARHS 275
AFRO-AMERICAN ART 3.0
Afro-American art in the United States from colonial times to the present. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation. Meets the Minorities Culture Requirement.

ARHS 458
TRADITIONAL ARTS OF SUB-SAHARAN AFRICA 3.0
The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings, relation to ceremony and to daily life; symbolism and relations to the arts of other cultures. Meets the Minorities Culture Requirement.

History

HIST 108
INTRODUCTION TO AFRICAN CIVILIZATION 3.0
Pre-Colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environmental systems of the period. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

HIST 217
HISTORY OF BLACK AMERICANS 3.0
Role of Americans of African descent in the development of the United States. Contributions of Black Americans from initial discovery and exploration to the mid-20th century. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

Home Economics

HEFM 445
THE INNER CITY FAMILY 3.0
Sub-cultures residing in large cities. The impact of urbanization, ethnicity, social and economic institutions. Problems which families encounter. Community contact is part of the course. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: Junior/senior standing.

Management

MGMT 332
MINORITIES IN BUSINESS 3.0
Methods and techniques for solving problems minority group members may encounter in business. New or existing personnel in managerial and non-managerial positions in established firms. Minority group members as entrepreneurs; relationships with other members of an organization. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: MGMT 311, MKTG 340.

Music

MUGN 150
INFLUENCE OF AFRO-AMERICAN CULTURE ON MUSIC 3.0
Ways in which the Afro-American culture has affected the development of American folk and art music. Meets the Minorities Culture Requirement.

MUGN 209
INTRODUCTION TO JAZZ 3.0
Jazz as an American phenomenon; musical materials as manipulated by jazz artists; the impact on American popular music, dance and theatre; early jazz players and developments. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation. Meets the Minorities Culture Requirement.

MUGN 309
THE ART OF JAZZ 3.0
Development of jazz in America and abroad; sociological implications in American society and the impact of jazz upon contemporary composition. Meets the Minorities Culture Requirement.

Political Science

POLS 204
GOVERNMENT AND POLITICS OF AFRICA 3.0
Governmental and political development, organization and practices in sub-Saharan Africa. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Minorities Culture Requirement.

POLS 312
BLACK POLITICS IN AMERICA 3.0
Black participation in the American political system from the Colonial period to the present. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

Psychology

PSYC 246
PSYCHOLOGY OF THE BLACK EXPERIENCE 3.0
Historical impact of scientific and institutional racism on the psychological study of Blacks. Survey and critical analysis of traditional European approaches with non-traditional methods for comparison. Future development and advancement of a Black Psychology considered. Meets the General Education Requirement - Social Science, Survey Course. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: PSYC 101.

Sociology

SOCI 202
RACIAL AND ETHNIC RELATIONS 3.0
The social meaning of race and ethnicity. The social, psychological and structural sources of racism; the consequences of this phenomenon to groups; situation and comparative data. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

SOCI 205
THE BLACK FAMILY 3.0
The Black family in American society; historical perspectives and contemporary conflicts surrounding the Black family. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

SOCI 311
URBAN SOCIOLOGY 3.0
Processes of urbanization and conditions of urban life; nature of urban social relationships; organizations of city life; urban ecological patterns and demographic conditions; municipal and regional influences of metropolitan centers. Meets the Minorities Culture Requirement. Meets the Human and Intercultural Relations Requirement.

Speech and Theatre (Broadcasting, Speech Communication, Dance and Theatre, effective July 1, 1990)

STDN 345
DANCE TECHNIQUE: ETHNIC 3.0
The distinctive techniques customarily related to specific racial and cultural groups. The groups studied will vary from semester to semester. May be taken more than once. Meets the Minorities Culture Requirement.

Archaeology Minor (18 semester hours)

Coordinator: Timothy Renner

Jointly sponsored by the Anthropology, Classics, and Fine Arts departments, this minor offers the student an interdisciplinary program in the study of ancient cultures. The minor is flexible enough to allow students to explore the newest scientific techniques in excavation, dating, and laboratory analysis as well as the historical and aesthetic appreciation of the arts of ancient societies. It also encourages the study of foreign languages and those natural sciences which aid in the reconstruction of ancient cultures.

Currently there are two special opportunities for students to participate in excavation as part of their course work: (1) in the northern New Jersey area, where colonial and prehistoric North American cultures are studied first-hand; (2) in Israel, where Montclair participates in an international archaeological project to study the Iron Age, Greco-Roman, and Byzantine cultures of the ancient "Land of Geshur" region.

In general, the Archaeology minor makes an excellent complement to any liberal arts or professional studies major. But more specifically, archaeology has recently become a subject of great interest to many people in the public at large, and students who go on to work in the media, in the travel industry, and in international business (to name only a few examples) can profit greatly from studying it. In addition, the growing need in recent years for more archaeologists to carry out archaeological impact studies for construction and historic preservation projects has created many new opportunities in applied archaeology, especially for students who also study anthropology and/or go on to graduate work in archaeology. Lastly, students who wish to do graduate work in archaeology in preparation for a career in teaching, research, or museum work will find the Archaeology minor to be excellent preparation, especially when combined with a major in an appropriate related area such as Anthropology, Classics, or Art History.

Required Courses

			Semester Hours
ANTH	205	Prehistoric Archaeology	3
GNHU	181	Classical Archaeology	3

Electives

Select 12 semester hours from the appropriate list to be obtained from the coordinator of the program. This group of courses will include at least one in fine arts 12

Criminal Justice Minor

Coordinator: David Dodd

This program is open to students in all majors who are interested in pursuing careers in Criminal Justice. It is designed to prepare individuals to apply social scientific thought and methodology to work in Criminal Justice agencies.

Required Courses

			Semester Hours
SOCI	101	Criminology	3
SOCI	301	Sociological Research Method I	3
SOCI	323	Introduction to Criminal Justice	3

Electives

Select 12 semester hours from the appropriate list to be obtained from the Sociology Department, including at least three semester hours from approved courses outside sociology.

Film Minor

Director: Janet Cutler

An interdisciplinary program, designed for students in both the humanities and the fine arts, the Film Minor offers experience in filmmaking, as well as criticism, history, theory, and aesthetics.

Required Courses (6 semester hours)

ARFL 218 Filmmaking I 3
ENFL 208 Introduction to the Film 3
OR
GNHU 208 Introduction to the Film 3

Electives

Survey Courses (6 semester hours)

Students must select two of the following:
ARFL 219 Filmmaking II 3
ENFL 250 Major Film Directors 3
ENFL 255 World Film 3
ENFL 260 Major Film Genres 3

Specialized Courses (6 semester hours)

Students must select two of the following:
ARFL 221 Video-TV As Art 3
ARFL 299 History of Cinema as Art 3
ARFL 453 Filmmaking III 3
ARFL 499 Filmmaking IV 3
ENFL 310 Screenwriting I 3
ENFL 350 Three Directors 3
ENFL 356 The Contemporary Film 3
ENFL 357 American Film to 1945 3
ENFL 358 American Film 1945 to the Present 3
ENFL 360 Film Comedy 3
ENFL 410 Screenwriting II 3
ENFL 490 Special Topics in Film Studies 3
GNHU 286 French Film 3
SPIN 277 Italian Film 3

International Studies Minor (18 Semester Hours)

Director: Benjamin Hadis

The purpose of this interdisciplinary minor is to provide students with an education that broadens their knowledge of the peoples of the world, international events, and the socio-economic and socio-political background to global affairs. To do this, it integrates area studies and the study of international problems viewed from a cross disciplinary perspective. New curricular efforts, including global perspectives in issues-oriented courses, are emphasized.

This minor provides a splendid foundation for careers in which an understanding of international economic, political, social, and cultural affairs is of importance; it also provides a foundation for graduate work in the field; and is an excellent complement to majors in the humanities, social sciences, fine arts and business.

Required Courses

Basic Core Requirements Semester Hours
INTL 100 Introduction to Global Issues 3
INTL 400 Integrative Seminar in International Studies 3

Electives

Select twelve semester hours from the appropriate list to be obtained from the director of the program. These electives will include six semester hours in area studies courses and three semester hours each in global issues and courses with international focus.

Courses of Instruction

INTL 100
INTRODUCTION TO GLOBAL ISSUES 3.0
This course offers students an opportunity to study in a cross-cultural context a number of topics which are of a global nature and affect humanity in profound ways and which may influence the evolution of world trends.

INTL 400
INTEGRATIVE SEMINAR IN INTERNATIONAL STUDIES 3.0
Directed Research and preparation of seminar reports and written papers on topics which utilize comparative as well as interrelated approaches to international and global issues and themes.
Prerequisites: 9 semester hours of courses in the International Studies Minor, including Introduction to Global Issues.

Women's Studies Minor

Director: Adele B. McCollum

The Women's Studies Minor program is an interdisciplinary academic program. The minor includes two required three credit core courses: an introductory interdisciplinary course and an independent study project at the end of the minor program. Flexibility of choice of the other 12 credits from courses in various academic departments permits a student either to get a broad perspective of women's studies or to specialize in an area such as women in literature or women in society. Each student should consult with the Director of the Women's Studies program, to work out a suitable course of studies to meet the minor requirements. The Women's Studies minor consists of 18 credits.

Required Courses

Semester Hours
WMST 201 Women's Worlds 3
WMST 401 Independent Study 3

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the coordinator of the program 12

Additional selected topics courses are offered periodically.

Courses of Instruction

Women's Studies

WMST 102
WOMEN'S WORLDS 3.0
This course introduces the student to the broad and interdisciplinary field known as Women's Studies. Designed to make students aware of the new discoveries in feminist research and to focus on many aspects of the female experience. Designed to help students understand different methodologies in diverse disciplines and to treat areas such as literature, history, psychology, and the arts through a thematic approach. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement. Also listed in Psychology under PSYC 102.

WMST 401
INDEPENDENT STUDY 3.0
This course, required in the senior year, will have two options: A) Advanced research in a project in a particular discipline using the tools a student has acquired in his/her studies; B) A practicum of field work in which a student goes out into the community to work with women and to gain data and first hand experience concerning the practical problems of women within various careers.

Anthropology

ANTH 415
WOMEN IN TRADITIONAL SOCIETY 3.0
Surveys several traditional pre-industrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed.

Classics

GNHU 383
WOMEN IN ANTIQUITY 3.0
Women in the ancient world and their contributions to history, literature, philosophy, and the arts. Emphasis on Greco-Roman civilization, with comparative study of other ancient cultures.

Counseling, Human Development and Educational Leadership

COUN 481
THE LEGAL RIGHTS OF WOMEN 3.0
This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of Affirmative Action, Civil Rights legislation and Titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered.

Economics

ECON 250
SELECTED TOPICS IN ECONOMICS 3.0
(Economics of Women)
An in-depth study of a particular theoretical or applied area of economics. (Topic will be Economics of Women.)

Educational Foundations

EDFD 264
SEXISM IN AMERICAN EDUCATION 3.0
Designed to analyze sexism in the American schools. Emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement.

English

ENGL 294
WOMEN POETS 3.0
Selected poets from Sappho through Emily Dickinson to Sylvia Plath, examined in relation to contemporary women poets.
Prerequisite: ENGL 160.

ENGL 493
SEMINAR IN AMERICAN LITERATURE 3.0
(Images of Women)
The works of one major American author in depth or of a group of authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or permission of the instructor.

ENLT 372
WOMEN PROSE WRITERS 3.0
Readings in the international fiction and non-fiction of women writers. The focus will be on such themes as the nature of the family changing relationships between women and men, evolving concepts of the "feminine" the impact of colonialism on gender related issues, (i.e., work and women's identity), and interrelationships between religion and women's lives.

ENLT 492
SEMINAR IN COMPARATIVE LITERATURE 3.0
A culture, theme, era or literary approach studied through international literary masterpieces. Topic: selected writings in Women's Utopian and science fiction literature with an emphasis on the literature of the twentieth century.

Fine Arts

ARHS 108
WOMEN IN ART 3.0
The role and status of women in art from the old stone age through the present; the special roles of women in the past, in society, the role of women artists in western culture from the Renaissance to the present; depictions of women in different iconographic categories; women as artists today. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

History

HIST 215
WOMEN IN AMERICAN HISTORY 3.0
History of American women from colonial times to the present, with particular emphasis on women's work, social and political movements, and their changing roles in American society.

HIST 309
FEMINIST IDEAS IN WESTERN THOUGHT 3.0
History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecraft, Fuller, Mill, and Freud will be considered.

Home Economics

HECO 205
WOMEN IN CONTEMPORARY SOCIETY 3.0
Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women. Meets the General Education Requirement - Contemporary Issues. Meets the Minorities Culture Requirement.

Legal Studies

LSLW 391
WOMEN AND THE LAW 3.0
This course is designed to help students to understand and evaluate the changing patterns of gender-based laws in the United States in terms of the preferences they reflect and the rationales used to justify them. Emphasis will be placed upon issues which impact upon women's rights, Supreme Court cases which impact upon the roles and rights of women, and legislation.

Linguistics

LING 255
WOMEN, MEN AND LANGUAGE 3.0
A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement.

Philosophy and Religion

RELG 267
WOMEN IN RELIGION 3.0
Focuses on women's own experience in religions and the various perspectives of women held by both eastern and western religious traditions. The course deals with questions such as the nature of women, patriarchy and religion, and roles of women in religions.

Psychology

PSYC 265
PSYCHOLOGY OF WOMEN 3.0
The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined. Meets the General Education Requirement - Social Science, Topic Course. Meets the Minorities Culture Requirement.
Prerequisite: 6 semester hours in psychology.

SOCI 414
SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0
(Women and Work)
A study of women's work in contemporary society.

SOCI 430
SOCIOLOGY OF GENDER 3.0
The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion. Special emphasis is placed on the impact of social change on sex roles in contemporary society.

SPECIAL PROGRAMS

Cooperative Education

Director: Freyda Lazarus

Cooperative Education is an educational program that involves students in productive, paid work experiences as an element of the academic curriculum.

Because Co-op integrates classroom studies with actual work experience, its value is twofold. First, students benefit from a unique educational experience as they:

* Gain new insights and understanding that enhance their on-campus studies
* Improve both verbal and written communication skills
* Reflect upon workplace experiences in order to make more informed decisions about their futures
* Attend seminars and complete academic assignments aimed at focusing and clarifying knowledge garnered on the job

Next, participants gain important career advantages through:

* Achieving practical work experience
* Improving their marketability upon graduation
* Making important professional contacts
* Observing, first-hand, emerging workplace trends and technologies
* Earning salaries that often exceed one year's tuition, room and board

Co-op placements are arranged through the Cooperative Education Office and its network of 600 employers, and run concurrently with the college semester. Credit is granted for each semester of participation, including the Summer term. The specific number of credits earned ranges from 3 to 8 per semester, depending upon the length of time worked, up to a maximum of 16 credits during the undergraduate program. Multiple co-op experiences may take place in a single work setting or in different positions, either full- or part-time.

Eligibility

Cooperative Education enrollment is open to degree-seeking students in all majors who have completed 45 credits and who have a 2.00 or higher grade point average.
(Transfer students must have completed 15 credits at Montclair State prior to placement.)

Individual departments may have additional requirements.

Preparation for co-op placement

Through every stage of the program, co-op students receive guidance and assistance. An initial video program introduces the co-op experience and familiarizes students with what they can expect.

A Professional Preparation Workshop helps individuals identify skill areas, clarify values and learn about interview techniques.

Individual counseling is provided by co-op coordinators as students prepare a profile, ready themselves for interviews, obtain final placements and complete the registration process.

Obtaining a co-op position

The Cooperative Education Office maintaining a network of participating employers in business, laboratories, government and the social service sector. Coordinators submit student profiles to potential employers. These prospective employers review applications, select candidates for interviews and make final selections.

A supervised learning experience

The aim of Cooperative Education is to provide a setting for workplace learning, and every effort is made to structure the experience to maximize that learning.

A faculty coordinator works with each student to devise a Learning Agreement and design academic projects to be completed in conjunction with the work experience. The faculty coordinator also makes site visits to the workplace and assigns a letter grade at the close of each co-op semester.

On-campus seminars are provided during which students share work experiences, discuss work-related challenges, and focus on informal learning that has taken place.

In addition, an employer work supervisor provides guidance during the placement and evaluates job performance.

Obtaining college credit

All students must be placed by the Co-op Office prior to registering. Once a placement has been finalized, students must register for credit using Co-op course numbers. Credit earned varies according to department and the length of time worked.

Credits for multiple placements are granted up to a maximum of 16 over the course of two to three Co-op semesters.

Advance planning

The Cooperative Education Office seeks to provide every student with the maximum benefits available from this experiential learning program. Therefore, we strongly urge students to contact the office early in their academic careers, and to apply for Co-op at least four months before desired placement.

Careful planning is necessary in order to make sure all departmental and Co-op requirements are met; allow adequate time to determine appropriate placement; and complete Co-op semester(s) without any delay in graduation.

The Cooperative Education Office is located in the Student Center Annex, Room 104. Telephone: 893-4426.

Career Development Co-op Programs

			Semester Hours
COED	301	Cooperative Education-Experience I	3.0-8.0
COED	401	Cooperative Education-Experience II	3.0-8.0

Department Co-op Programs

BEOS	230	Introduction to Business Work Experience	4.0-8.0
BIOL	409	Cooperative Education (Biology)	1.0-4.0
CMPT	499	Cooperative Education Computer Science	3.0-8.0
ENWR	301	Cooperative Education (English)	8.0
FINC	491	Cooperative Education-Finance (only for Coop II's)	3.0-8.0
FINQ	491	Cooperative Education-Quantitative Methods	3.0-8.0
FREN	380	Cooperative Education for the French Major	4.0-8.0
ISCP	405	Cooperative Industrial Internship	4.0-8.0
ITAL	385	Cooperative Education (Italian)	4.0-8.0
LSPR	326	Cooperative Education: Paralegal Studies	4.0-8.0
MKTG	399	Business Work Experience II	4.0-8.0
PCOM	391	Cooperative Education in Psychology	9.0
PEMJ	380	Internship in Physical Education	8.0
PEMJ	381	Cooperative Education in Physical Education	4.0-8.0
PERL	381	Cooperative Education in Recreation and Parks	4.0-8.0
PORT	385	Cooperative Education (Portuguese)	4.0-8.0
SOCI	390	Cooperative Education in Sociology	8.0
SPAN	385	Cooperative Education (Spanish)	4.0-8.0
TOXI	409	Externship in Toxicology Research (Cooperative Education)	4.0

Courses of Instruction

COED 201
COOPERATIVE EDUCATION INTERNSHIP SEMINAR 1.0
The course is a seminar held concurrently for the student enrolled in the co-op program. It intends to provide students with the opportunity to observe, analyze, and process their off-campus work experience. The major goals of the course are to assist students in understanding themselves and the work world, and use this information to set new career directions.

COED 301
COOPERATIVE EDUCATION EXPERIENCE I 3.0-8.0
The cooperative plan is an instructional strategy that provides the student with controlled learning experiences in an employment situation while these experiences are building upon prior cognitive and technical skills attained in college. May be repeated for credit up to a maximum of 8.
Prerequisites: Determined by individual departments.

COED 401
COOPERATIVE EDUCATION-EXPERIENCE II 3.0-8.0
The cooperative plan is an instructional strategy that provides the student with controlled learning experiences in an employment situation while these experiences are building upon prior cognitive and technical skills attained in college. May be repeated for credit up to a maximum of 8.
Prerequisites: Determined by individual departments.

Health Careers Program

Director: Rosie Allen-Noble

The Health Careers Program provides highly motivated and academically capable disadvantaged students with potential for undergraduate success opportunities to prepare for careers in the health professions. This goal is achieved through a balance of formal course work, comprehensive supportive services, field experiences and financial assistance. Successful completion of the program is designed to increase competitive admission into professional schools.

Acceptance into the program is dependent upon being disadvantaged by virtue of environment or economic circumstances.

The program works in close cooperation with the University of Medicine and Dentistry of New Jersey and Fairleigh Dickinson University School of Dentistry.

Reserve Officers Training Corps (ROTC)

Army

The department of Military Science at Seton Hall University offers courses and a program in military science designed to qualify young men and women for commissions in the U.S. Army. Officers commissioned through ROTC are educated by the same professors, under the same curricula and at the same institutions which produce civilian leaders; earn degrees in the field of their choice; represent all geographic, economic and social strata; are highly motivated, openminded and civilian oriented. Army ROTC aids students by providing leadership and management experience found in few college courses; providing opportunity for a military career in the active army or a reserve component; developing self-discipline, physical stamina and poise; enhancing development of management skills; and developing qualities basic to success in any career.

Montclair State College in concert with Seton Hall University has provided the opportunity for students interested in the ROTC program to receive instruction in basic military science courses at Seton Hall University for college credit. (All military science courses are applicable as free elective credits toward graduation from MSC.) Registration for these basic courses is through MSC. While basic instruction is open to all students, only those with two academic years remaining (undergraduate or graduate) may matriculate into the program leading to a commission as a second lieutenant.

In addition, the Army awards scholarships on a competitive basis to outstanding young men and women who are interested in the Army as a career. The scholarships provide tuition, textbooks, laboratory fees, and a monetary allowance of $100 each month for up to ten months of each school year the award is in effect. Direct inquiries to the Scholarship Officer at Seton Hall, (201-763-3078), or the MSC Office of the Vice President for Academic Affairs.

Courses of Instruction

ROTC 100
INTRODUCTION TO U.S. ARMY AND ROTC 1.0
Military organizations, customs, tradition, and life-styles. Introduction to basic military skills; role of the U.S. Army; branches of the Army; benefits of the service; professionalism and ethics of the Army officer.

ROTC 110
FUNDAMENTALS OF LEADERSHIP 1.0
Theory, methods and principles for understanding leadership and behavior in groups; the impact of the leader's behavior on the leadership process; and introduction to counseling as a leadership concept.

ROTC 111
LEADERSHIP LABORATORY 1.0
Hands-on training of the basic skills of a soldier, including weapons, first aid, chemical-biological-radiological (CBR) defense, communications and physical fitness training. Emphasis is placed upon utilization and maintenance of equipment. Students receive practical experience in leadership and management by assuming the responsibilities of leaders, trainers and staff officers.

ROTC 112
LEADERSHIP LABORATORY 1.0
Hands-on training for the basic skills of a soldier, including weapons, first aid, chemical-biological-radiological (CBR) defense, communications and physical fitness training. Emphasis is placed upon utilization and maintenance of equipment. Students receive practical experience in leadership and management by assuming the responsibilities of leaders, trainers and staff officers.

ROTC 130
TOPOGRAPHICAL MAP READING 1.0
An introduction to topographical map reading and land navigation techniques. Methods of navigating using the magnetic compass and natural terrain features. Use of map and compass in practical orienteering exercises.

ROTC 155
LEADERSHIP DEVELOPMENT 1.0
A study of the skills and knowledge that are the foundations for developing military leaders. Included are military courtesy and discipline, customs and traditions of the service, and an analysis of the leader's role in directing and coordinating the efforts of individuals and small units in accomplishing their missions.

ROTC 160
AMERICAN MILITARY HISTORY 2.0
A study of the development of American military institutions, policies, experiences and traditions in peace and war from colonial times to the present. Emphasis will be on the relationship between the military and other aspects of American society and the role of the military in the establishment, expansion, preservation, and development of the nation.

Air Force

Montclair State students can earn appointments as commissioned officers in the U.S. Air Force, through an ROTC cross-town agreement with New Jersey Institute of Technology. Students with two or more years of college remaining in either undergraduate or graduate studies are eligible to apply. Credits for the general military, professional officer courses and aerospace studies, taught at NJIT are applicable as free elective credits toward graduation from MSC. For information on the conditions, benefits, and procedures of the program, contact Air Force ROTC, Detachment 490, telephone (201) 596-3624/3626.

ROTC 114
UNITED STATES MILITARY FORCES IN THE CONTEMPORARY WORLD I 1.0
This introductory course explores the doctrine, mission, and organization of the United States Air Force. It examines the mission and weaponry of the U.S. strategic offensive and defensive forces and the function and employment of nuclear weapons. One hour of class and one hour of leadership laboratory per week.

ROTC 115
UNITED STATES MILITARY FORCES IN THE CONTEMPORARY WORLD II 1.0
This course is a study of U.S. general purpose forces and aerospace support forces. It explores the mission, resources and operation of various air force commands and their role in warfare. The support functions of research, logistics, and education are also introduced. One hour of class and one hour of leadership laboratory per week.

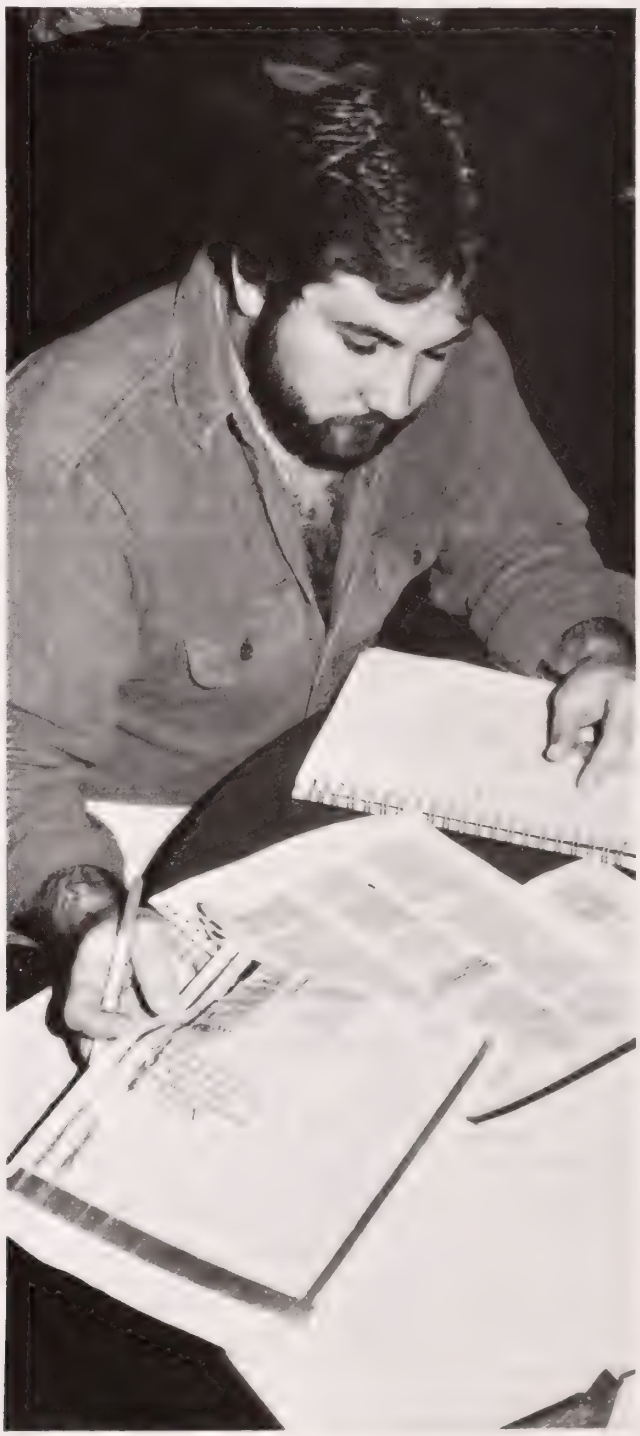
ROTC 221
DEVELOPMENT AND GROWTH OF AIR POWER I 1.0
This course examines the development of air power over the past 60 years. It traces the development of various concepts of employment of air power and focuses on factors which have prompted research and technological change. One hour of class and one hour of leadership laboratory per week.

ROTC 222
DEVELOPMENT AND GROWTH OF AIR POWER II 1.0
This course stresses the variety of events and elements in the history of air power especially where these provide significant examples of the impact of air power on strategic thought. One hour of classes and one hour of leadership laboratory.

Special Education

Although there is no department of Special Education at Montclair State College, there are four undergraduate and 11 graduate programs which offer preparation for a variety of special education professions. These programs are coordinated by the Special Education Coordinating Committee (SECC). This interdisciplinary unit brings together programs from the schools of Humanities and Social Sciences, Professional Studies, and Fine and Performing Arts. Because SECC encourages academic programs which include practical experience as an essential component of training, it maintains the Psychoeducational Center, which is located on campus. See also the description under the Reading and Study Skills Center.

Information about the following programs may be found in this catalog: Communication Sciences and Disorders (Audiology and Speech Pathology), Music Therapy, Reading, Therapeutic Recreation.



Appendix of Scholarships and Awards

Accounting, Law and Taxation

KATHE BRODT MEMORIAL SCHOLARSHIP
Amount: *$500*
Criteria: *Concentration in accounting, 90 credits completed toward the baccalaureate degree, registered for full-time study (at least 12 semester hours each term during the year of grant), academic achievement and financial need.*
Contact: *Chairperson, Accounting, Law and Taxation Department*

Biology

CHARLES HADLEY MEMORIAL FUND FOR INDEPENDENT STUDENT RESEARCH
Amount: *Up to $275*
Criteria: *Students who have displayed excellence of work and need for financial assistance to complete their research and independent student projects in biology.*
Contact: *Chairperson, Biology Department*

VIOLA WHITNEY PFLEGER FUND
Amount: *$500*
Criteria: *Students of horticulture recommended by chairperson of biology or designee.*
Contact: *Chairperson, Biology Department*

Business Administration

RAFFAELA BASILE MEMORIAL SCHOLARSHIP
Amount: *Up to $500*
Criteria: *Upcoming junior or senior in the School of Business Administration, service to the College, favorable academic standing, and financial need.*
Contact: *Dean, School of Business Administration*

Career Services

CHARLES BARGERSTOCK MEMORIAL FUND
Amount: *$500 (per semester)*
Criteria: *Graduate students enrolled in the counseling, human services and guidance program. Available for internship ten hours weekly in Career Services Office, Department of Counseling, Human Services and Guidance, or Graduate Studies Office.*

Chemistry

SOKOL GRADUATE FELLOWSHIP IN CHEMISTRY
Amount: *$10,000*
Criteria: *Senior chemistry major at MSC who will be pursuing the doctorate in chemistry or a closely allied field at an approved graduate school; academic excellence; potential for success in doctoral studies and research.*
Contact: *Chairperson, Chemistry Department*

Cooperative Education

AMERICAN CYANAMID HIGH TECH SCHOLARSHIP
Amount: *$500 per student*
Criteria: *Two awards*
Distinguished scholars or SAT's 1200
Contact: *Financial/Aid Office, Dr. Randall W. Richards III*

PRUDENTIAL CO-OP SCHOLARSHIP
Amount: *$2,200 (two Scholarships) Amount may vary*
Criteria: *Two Cooperative Education students who exhibit exceptional professional and personal growth; nomination, essay and interview required.*
Contact: *Office of Cooperative Education*

Economics

J. S. GANG SCHOLARSHIP
Amount *Varies*
Criteria: *To provide incentive to outstanding students in the field of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are academic excellence and financial need.*
Contact: *Office of Development and External Relations*

English

MARY BONDON SCHOLARSHIP AWARD
Amount: *$1,000*
Criteria: *Qualified MSC English Department graduate student pursuing a career in the teaching profession in area of English Literature.*
Contact: *Chairperson, English Department, or English Graduate Program Coordinator*

LAWRENCE H. CONRAD MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *MSC graduate, pursuing graduate degree in American Literature or Creative Writing at the College. Selection based on value of thesis proposal and financial need.*
Contact: *Dr. Morris C. McGee, English Department*

ANTHONY L. LOVASCO MEMORIAL FUND
Amount: *Varies*
Criteria: *Outstanding English student.*
Contact: *Chairperson, English Department*

BESSIE SASLAW SOLOMON MEMORIAL SCHOLARSHIP
Amount: *Varies*
Contact: *Chairperson, English Department*

Environmental, Urban and Geographic Studies

BERTRAND BOUCHER SCHOLARSHIP FUND
Amount: *Varies*
Criteria: *Environmental, Urban and Geographic Studies major.*
Contact: *Chairperson, Environmental, Urban and Geographic Studies Department*

Fine Arts

THE ELFRED S. GROVER MEMORIAL SCHOOL IN ART AND DESIGN
Amount: *Varies*
Contact: *Chairperson, Fine Arts Department*

HOLLACE M. WYCKOFF SCHOLARSHIP
Amount: *Varies*
Criteria: *One student from each department, School of Fine and Performing Arts, high academic standing.*
Contact: *Office of College Development.*

French

FRENCH DEPARTMENT SCHOLARSHIP FOR GRADUATE STUDY
Amount: *$500 ($250 per semester)*
Criteria: *Financial need and merit.*
Contact: *Chairperson, French Department*

Geography

MILSTEAD AWARD FOR EXCELLENCE IN GEOGRAPHY
Amount: *Approximately $150*
Criteria: *Junior major in environmental, urban and geographic studies with high academic standing; minimum 12 hours in major—shows future promise as a professional geographer.*
Contact: *Dr. Harbans Singh, Environmental, Urban and Geographic Studies Department.*

German/Russian

OVERSEAS NEIGHBORS EXCHANGE SCHOLARSHIP
Amount: *28,000 Austrian Schillings (about $1,700), plus room, health insurance and 20-day pass on Austrian National Railway.*
Criteria: *Undergraduate student fluent in German, ability to do university work. Decision made by interview committee.*
Contact: *Chairperson, German/Russian Department. Apply during early spring semester.*

Graduate Studies

HAROLD C. BOHN FELLOWSHIP
Amount: *Varies*
Criteria: *Senior who shows promise in any academic discipline and presents a bonafide plan for graduate study.*
Contact: *Office of Development and External Relations.*

WILLIAM A. CUFF MEMORIAL AWARD
Amount: *$500*
Criteria: *Deserving student entering the teaching field, must consult with Dr. Michelli, Dean, School of Professional Studies.*
Contact: *Dean, School of Professional Studies*

PHI DELTA KAPPA SCHOLARSHIP
Amount: *Varies. Usually two awards covering cost of one graduate course.*
Criteria: *Matriculated student in education master's degree program.*
Contact: *Dean, School of Professional Studies*

SIMONE PICARD ASSISTANCE FUND
Amount: *Varies*
Criteria: *Student enrolled in a master's degree or other post-baccalaureate program at Montclair State College. Preference will be given to applicants preparing for careers in teaching or related educational areas. Under circumstances deemed exceptional by the Committee; partial assistance may be granted to baccalaureate degree students who have completed at least 60 semester hours of work of which 24 semester hours had been completed at Montclair State College.*
Contact: *Dr. Berth B. Quintana, Anthropology Department*

THE ERCELL I. WATSON MEMORIAL FUND
Amount: *$100*
Criteria: *Educator who is matriculated in or a graduate of a master's degree program in the School of Professional Studies.*
Contact: *Dean, School of Professional Studies*

Health Professions

PANZER TRUST INCENTIVE SCHOLARSHIP
Amount: *$200*
Criteria: *Health major who has been accepted for graduate work at a college or university.*
Contact: *Chairperson, Department of Physical Education, Recreation and Leisure Studies*

Hispanic Students

NORTH WARD CENTER SCHOLARSHIP
Amount: *$500 (2 awards)*
Criteria: *MSC students from the North Ward Center's Hispanic Community.*
Contact: *Director of Development and External Relations*

History

JULIAN J. JAFFE MEMORIAL AWARD
Amount: *$75-$100*
Criteria: *Undergraduate student who has shown distinction in history and a "concern for the truth about the past."*
Contact: *Chairperson, History Department*

WILLIAM McLEAN SCHOLARSHIP
Amount: *$500 (junior or senior year)*
Criteria: *Outstanding junior-year history major who has demonstrated appreciation of the comprehensiveness of historical study and the interrelatedness of history, the social sciences and the humanities. A minimum average of 3.00 in history and an overall average of at least 2.67 are required.*
Contact: *Chairperson, History Department*

GARY RICHARD TAMIRIAN MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *Outstanding junior or senior history or political science major with a 3.50 or better cumulative grade point average. Demonstration of service to community, committed to humanitarian endeavors.*
Contact: *Dr. Peter Macaluso, History Department*

Home Economics

ESSEX COUNTY HOME ECONOMICS EXTENSION COUNCIL SCHOLARSHIP
Amount: *$200*
Criteria: *Junior student; high academic standing; financial need; professional potential; resident of Essex County.*
Contact: *Chairperson, Home Economics Department*

ESSEX/HUDSON ECONOMICS ASSOCIATION SCHOLARSHIP
Amount: *$200*
Criteria: *Junior student; high academic standing;professional potential; financial need; Essex or Hudson county resident.*
Contact: *Chairperson, Home Economics Department*

FASHION STUDIES AWARD
Amount: *$100*
Criteria: *Fashion studies or consumer affairs major with clothing and textiles, interior design, household equipment and housing concentration; high academic standing; participation in college and/or community activities; professional potential.*
Contact: *Chairperson, Home Economics Department*

KATHARINE B. HALL ALUMNI AWARD
Amount: *$100*
Criteria: *Junior who is a member of the MSCHEA, has a B or better average, and is outstanding in social and professional activities.*
Contact: *Chairperson, Home Economics Department*

MONTCLAIR STATE COLLEGE HOME ECONOMICS ASSOCIATION SCHOLARSHIP
Amount: *$100 or more*
Criteria: *Junior or senior standing; high academic standing; professional potential as demonstrated in professional/community activities; financial need; active in MSC Home Economics Association.*
Contact: *Chairperson, Home Economics Department*

NEW JERSEY HOME ECONOMICS ASSOCIATION SCHOLARSHIP
Amount: *$200*
Criteria: *Sophomore or junior student with a B or better average—active participation in MSCHEA.*
Contact: *Chairperson, Home Economics Department*

Juniors and Seniors

ALUMNI ASSOCIATION SCHOLARSHIP
(Includes the Dortch/Dickson Scholarship)
Amount: *$1,000 (22 scholarships)*
Criteria: *Service to the campus; good academic standing; juniors and seniors; financial need.*
Contact: *Alumni House (applications available in January—deadline March 1st for following academic year)*

ALUMNI ENDOWMENT SCHOLARSHIP
Amount: *$250 to $1,000*
Criteria: *Good academic standing (i.e., minimum cumulative grade point average of 3.0) and financial need.*
Contact: *Dean of Students*

NEW JERSEY BELL TELEPHONE COMPANY SCHOLARSHIP
Amount: *To be determined—two scholarships*
Criteria: *One junior student—one senior student. One male student—one female student. 3.50 average or better. Leadership and service to the College and community (awarded in late fall or early spring).*
Contact: *Director of Financial Aid*

Mathematics and Computer Science

MAX A. SOBEL FELLOWSHIP
Amount: *Amount and frequency varies.*
Criteria: *Graduate student in mathematics education; nominated by mathematics education faculty.*
Contact: *Chairperson, Mathematics and Computer Science Department*

JOHN C. STONE FUND
Amount: *$400—may vary*
Criteria: *Recommendation of Mathematics and Computer Science Department faculty with chairperson's approval—mathematics or computer science major.*
Contact: *Chairperson, Mathematics and Computer Science Department*

Media

EMANJ GRADUATE STUDY SCHOLARSHIP IN EDUCATIONAL MEDIA
Amount: *$500 two scholarships)*
Criteria: *Graduate media student, New Jersey*
Contact: *Associate Professor of Media and Technology*

EMMA FANTONE MEDIA GRANT
Amount: *Varies (provides for attendance at media conference in media field)*
Criteria: *Student interested in making media a career.*
Contact: *David S. Fogg, Media Center*

Merit Scholarships

ALUMNI ASSOCIATION INCENTIVE SCHOLARSHIP
Amount: *$1,000 (5 scholarships, non-renewable)*
Criteria: *Incoming full-time freshman; top 5% of his/her high school class; minimum combined SAT score of 1,000; record of school/community involvement; recommended by high school counselor.*
Contact: *Admissions office*

GEORGE G. KING MEMORIAL AWARD
Amount: *$100*
Criteria: *Outstanding contribution in community service, i.e., through community agencies.*
Contact: *Dean, School of Professional Studies*

THE PHYLLIS LEBOFF ENDOWMENT FUND IN HONOR OF HER HUSBAND, GERALD A. LEBOFF
Amount: *Varies*
Criteria: *Talented and gifted undergraduate and graduate students.*
Contact: *Office of Development and External Relations*

HARRY S. TRUMAN SCHOLARSHIP— GOVERNMENT SERVICE LEADERSHIP DEVELOPMENT
Amount: *Varies (maximum $5,000 a year for up to 4 years)*
Criteria: *A merit scholarship awarded at the end of sophomore year to a student anticipating government service. Merit basis.*
Contact: *Dr. Grosvenor Rust, Educational Leadership Dept.*

MARY A. WHALEY MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *Incoming freshman to Montclair State College; gifted, middle income background; those who do not qualify or take advantage of financial aid; or to supplement these aids for those who do.*
Contact: *Office of Development and External Relations*

Modern Language

MARGARET B. HOLTZ FUND FOR STUDENT EXCHANGE
Amount: *$200-$1,000*
Criteria: *Student working in the field of modern language outside the U.S. and whose candidacy has approval of members of the Margaret B. Holtz Board of Trustees.*
Contact: *Dr. David Kelly, of Classics or Office of Development and External Relations*

Music

LARRY A. FRANK MUSIC SCHOLARSHIP
Amount: *Varies*
Criteria: *Music student who shows promise as a music educator; music performer, music therapist, music composer, theorist or historian.*
Contact: *Chairperson, Music Department*

HOWE SCHOLARSHIP
Amount: *Varies*
Criteria: *Promise of ability and interest—restricted to student of the organ.*
Contact: *Chairperson, Music Department*

EDNA McEACHERN MUSIC FUND
Amount: *Varies*
Criteria: *Financial need, musicianship and contribution to the department.*
Contact: *Chairperson, Music Department*

THE CHARLES G. MUNIER MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *A deserving piano student—preferably a junior recommended by faculty in the Music Department*
Contact: *Chairperson, Music Department*

CAROL H. WASSERMAN PIANO SCHOLARSHIP
Amount: *Varies*
Contact: *Chairperson, Music Department*

HOLLACE M. WYCKOFF SCHOLARSHIP
Amount: *Varies*
Criteria: *One student from each department, School of Fine and Performing Arts, high academic standing.*
Contact: *Office of College Development*

Physical Education

PAUL P. BOGATKO SCHOLARSHIP
Amount: *Varies*
Criteria: *To provide incentive to a student in good standing and financial need in the field of physical education who is a graduate of East Side High School, Newark, N. J.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

MARGARET C. BROWN SCHOLARSHIP
(Donated by Robert Weston, '47)
Amount: *$150*
Criteria: *Sophomore physical education major with highest cumulative average who reflects some of Dr. Brown's professional ideals through leadership, service or participation in professional physical education activities on or off campus (i.e., conferences, workshops, conventions).*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

JOSEPH PAUL CERES SCHOLARSHIP
Amount: *Varies*
Criteria: *Outstanding sophomore or junior woman gymnast with exceptional ability and leadership in gymnastics.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

NICHOLAS CICCONE SCHOLARSHIP
Amount: *Varies*
Criteria: *Junior physical education major with skill in motivating older adults to keep fit through movement activities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

SUE FULLER MEMORIAL SCHOLARSHIP
Amount: *$500 approximately*
Criteria: *Junior woman in physical education—outstanding contributions through service to athletics (i.e. manager, publicity, statistician, etc.).*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

GERALD A. GARAFOLA SCHOLARSHIP
Amount: *$250*
Criteria: *Physical education sophomore who has made distinguished contributions and shown leadership in department activities, must have cumulative average of 2.80 or better.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

A. J. GORTON SCHOLARSHIP
Amount: *$100*
Criteria: *Junior maintaining a continuous satisfactory level of performing at a high level of skill in physical education activities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DOUGLAS GREULICH MEMORIAL SCHOLARSHIP
(Presented by Delta Chapter of Phi Epsilon Kappa Fraternity)
Amount: *$50*
Criteria: *Student who participates in some phase of the intercollegiate athletic program, has involvement in community and professional programs and exhibits high scholastic achievement (target 3.00 cumulative average).*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DEAN MARTINO MEMORIAL SCHOLARSHIP
Amount: *$100*
Criteria: *Junior physical education major who demonstrates a specific quality of Dean, as well as a willingness of the student to give time to others.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

JOSEPH NERENBERG SCHOLARSHIP
(Presented by Old Times Athletes)
Amount: *$100*
Criteria: *Freshman physical education major with highest scholastic record who, through participation in athletics, best represents sportsmanship as well as good scholarship.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PANZER STUDENT ASSOCIATION ADAPTED PHYSICAL EDUCATION AWARDS
Amount: *Varies*
Criteria: *Students who demonstrate exceptional service and qualities of leadership, understanding and creativity while fulfilling practicum assignments in the adapted area.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PANZER STUDENT SERVICE AWARD
Amount: *$50 Bond*
Criteria: *Student in good academic standing, who has provided outstanding leadership and service to the Panzer Student Association*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PANZER TRUST FUND
(3 incentive scholarships)
Amount: *$200*
Criteria: *Freshmen entering Montclair State College in the fall. Three scholarships will be obtainable:*
1. Physical Education major
2. Recreation and Leisure Studies major
3. Health Careers major
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department—for #1 and #2*
Chairperson, Health Professions Department for #3

PANZER TRUST INCENTIVE SCHOLARSHIP
Amount: *$200*
Criteria: *For the recreation major who has been accepted for graduate work at a college or university.*

PANZER ALUMNI SCHOLARSHIP
Amount: *$200*
Criteria: *Freshman physical education student with highest scholastic average and evidence of professional competence.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

ELVERA DE MUTH PERKINS SCHOLARSHIP
Amount: *$200*
Criteria: *Freshman Physical Education major who gives evidence of promise for making positive contributions to the field of physical education; financial need.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PHI EPSILON KAPPA AWARD, DELTA CHAPTER
Amount: *$50*
Criteria: *Recreation major who has shown constructive leadership in student activities and has a cumulative grade point overage of at least 3.00.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

ELYSIA PHILIPP SCHOLARSHIP
Amount: *Varies*
Criteria: *A capable student in need of aid to continue his/her education in the Panzer Department of Physical Education. Evidence of need required.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DR. RICHARD W. TEWS AWARD
Amount: *$50*
Criteria: *Contribution to physical education through services in the Panzer Student Association; cumulative grade point average of 2.75 or more.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

THOMAS THOMAS SCHOLARSHIP
Amount: *$100*
Criteria: *Two physical education junior students who have shown particular interest and skill in working with individuals possessing development disabilities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DR. HAZEL M. WACKER AWARD
Amount: *$50*
Criteria: *For a student who contributes to physical education through service in the Panzer Student Association, and who has a cumulative average of 2.75 or more.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DOROTHY AND VINCENT FARRELL SCHOLARSHIP
Amount: *Varies*
Criteria: *Freshman only, high academic achievement and active participation in Department activities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

THERESA FARRELL AWARD
Amount: *Varies*
Criteria: *Sophomores only; highest scholastic standing.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

Physical Education, Recreation and Leisure Studies

SCOTT AND DOROTHEA HARRIS SCHOLARSHIP
Amount: *Varies*
Criteria: *Sophomores only, scholastic achievement 3.00 cumulative grade point average, good citizen of the College and the community, gives promise of being a successful teacher of physical education.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

MATTHEW (PAT) KENNEDY SCHOLARSHIP
Amount: *Varies*
Criteria: *Freshman only, acceptable academic achievement, positive image, competencies in a number of physical education areas.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies*

Political Science

J. S. GANG SCHOLARSHIP
Amount: *Varies*
Criteria: *To provide incentive to outstanding students in the fields of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are to have excelled academically and to be in financial need.*
Contact: *Office of Development and External Relations*

Psychology

WILLIAM DORTCH, JR. SCHOLARSHIP
Amount: *$700*
Criteria: *Entering Freshman with high school grade of C or better; financial need; appreciation of Christian ethic; potential contribution to field of human development; also matriculated students who meet these criteria.*
Contact: *Organization of Students for African Unity or Psychology Department*

ORPHA M. LUTZ LOAN FUND
Amount: *Varies*
Criteria: *Financial loan to Montclair State College student majoring in psychology.*
Contact: *Chairperson, Psychology Department*

JEROME M. SEIDMAN AWARD FOR EXCELLENCE IN PSYCHOLOGY
Amount: *$100 each*
Criteria: *The man and woman graduating psychology majors with the highest cumulative averages. In the event of a tie, selection based on service to school and community. Awarded annually in May.*
Contact: *Chairperson, Psychology Department*

School of Business Administration

MICHAEL AND GERTRUDE HANCOUSKI FUND
Amount: *Varies*
Contact: *Dean, School of Business Administration*

School of Professional Studies

THE J. THOMAS FLAGG OUTSTANDING STUDENT TEACHERS AWARD
Amount: *$100*
Criteria: *Senior completing student teaching and nominated by faculty member.*
Contact: *Dean, School of Professional Studies*

TEACHERS CLUB OF MONTCLAIR MERIT SCHOLARSHIP FUND
Amount: *Varies*
Criteria: *Junior admitted to Teacher Education.*
Contact: *Dean, School of Professional Studies*

Second Careers

RALPH P. LASALLE SCHOLARSHIP
Amount: *$100*
Criteria: *Part-time Montclair State College student enrolled in a degree program—50 years of age and older—awarded in the spring and fall.*
Contact: *Second Careers Program*

Spanish/Italian

TERESA DEESCORIZA SCHOLARSHIP, SARA PRIETO SCHOLARSHIP
Amount: *Varies (two scholarships)*
Criteria: *Merit—sophomore standing, minimum 12 credits in Spanish at time of application, extracurricular activities at Montclair State College, community services, special honors, financial need.*
Contact: *Spanish and Italian Department*

ITALIAN CLUB SCHOLARSHIP
Amount: *Varies*
Criteria: *Interest in Italian culture or language, to further education here or abroad; must have good scholastic average; letter of recommendation; and some financial need.*
Contact: *Spanish and Italian Department or Italian Club*

SARA PRIETO SCHOLARSHIP
Amount: *Varies*
Criteria: *Merit—Sophomore standing, minimum 12 credits in Spanish at time of application, extracurricular achievement at MSC, community service, special honors, financial need. specifically for study abroad.*
Contact: *Spanish/Italian Department*

Speech and Theatre (Broadcasting, Speech Communication, Dance and Theatre)

WILLIAM A. BALLARE MEMORIAL FUND
Amount: *Varies*
Criteria: *1. Speech and Theatre major enrolled in teachers' certificate program, 2. undergraduate, 3. highest academic average in teachers' certificate program, 4. demonstrates positive potential to teach.*
Contact: *Chairperson, Speech and Theatre Department*

THE DANCE SCHOLARSHIP
Amount: *Varies*
Criteria: *Outstanding dance student chosen on basis of potential, contribution and talent.*
Contact: *Chairperson, Speech and Theatre Department*

THE JOSEPH F. BELLA THEATRE AWARD
Amount: *Varies*
Criteria: *Outstanding B.F.A. technical major chosen on basis of potential, contribution and promise of talent.*
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MALCOM FAIRFIELD FUND
Amount: *Varies*
Criteria: *Financial support for special student and faculty activities beyond normal College budgeting. Student pursuing independent study in theatre—apply by submitting a proposal for amount of money.*
Contact: *Chairperson, Speech and Theatre Department*

DENNIS K. McDONALD SCHOLARSHIP AND AWARD IN THEATRE
Amount: *$100*
Criteria: *Theatre graduate or undergraduate (junior or senior)—Performance quality, professional potential, evidence of continued development, 3.00 in theatre courses.*
Contact: *Chairperson, Speech and Theatre Department*

DENNIS K. McDONALD MEMORIAL SCHOLARSHIP
Amount: *$300*
Criteria: *Freshman student pursuing B.F.A., in theatre—audition required—academic competence. Based on admission audition.*
Contact: *Chairperson, Speech and Theatre Department*

HOLLACE M. WYCKOFF SCHOLARSHIP
Amount: *Varies*
Criteria: *One student from each department, School of Fine and Performing Arts, high academic standing.*
Contact: *Office of College Development*

Student Teaching

RUTH LEWIN ENDOWMENT FUND
Amount: *varies (2 or 3 awards annually)*
Criteria: *To be used specifically for helping students in teacher education, who need financial assistance; no other requirements stipulated.*
Contact: *Dean, School of Professional Studies*

THE J. THOMAS FLAGG OUTSTANDING STUDENT TEACHER AWARD
Amount: *$100*
Criteria: *Senior completing student teaching and nominated by faculty member.*
Contact: *Dean, School of Professional Studies*

BERGEN COUNTY RETIRED EDUCATORS ASS'N SCHOLARSHIP
Amount: *$500 (2 awards annually)*
Criteria: *One sophomore and one junior student, full-time students, 3.0 GPA and potential teacher; preference given to Bergen County, N. J. residents.*
Contact: *Director of Financial Aid*

LARRY DOBY SCHOLARSHIP—NJ NETS
Amount: *Varies*
Criteria: *High School graduate of Montclair High School or Paterson Eastside High School, academically talented*
Contact: *College Development Office*

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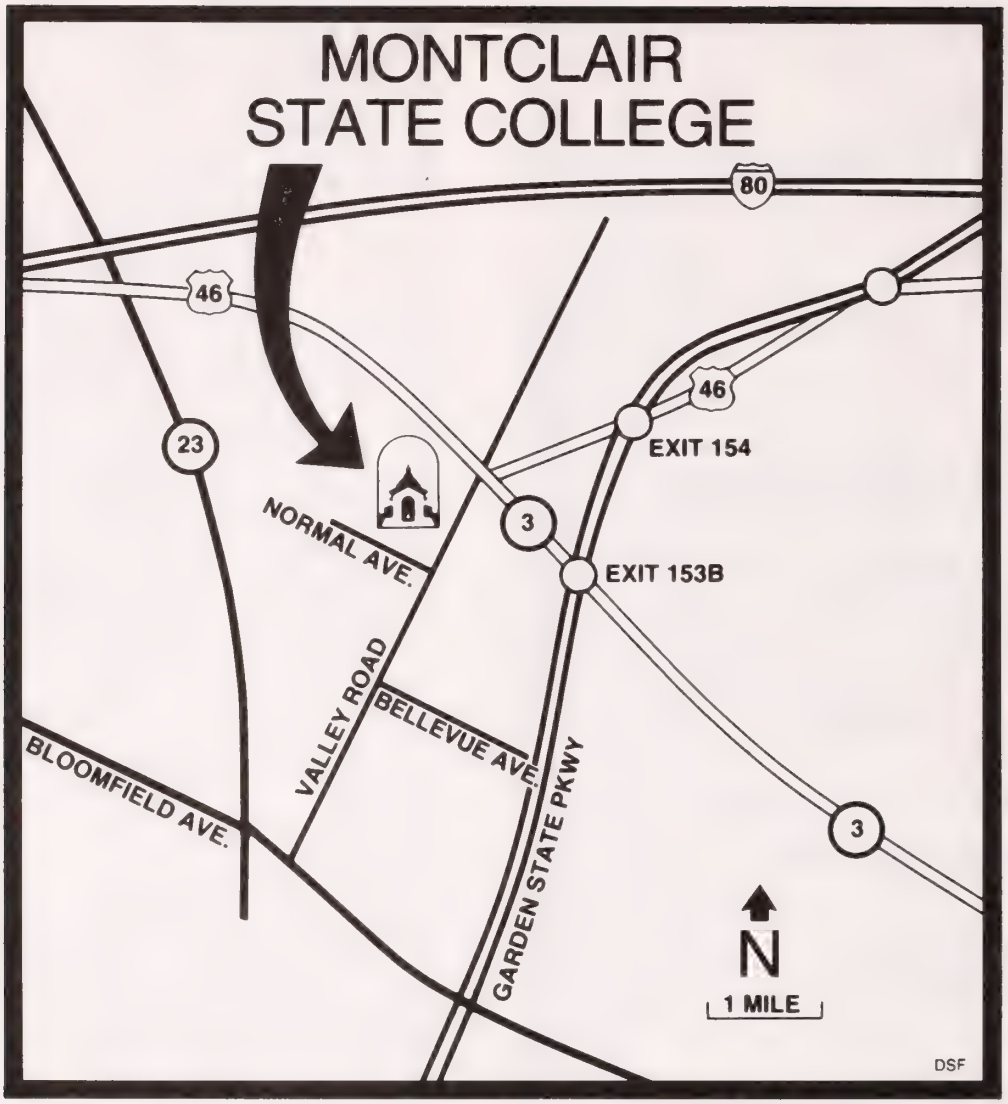
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MSC is on Valley Road and Normal Avenue, Upper Montclair (turn at the light). The college is one mile south of the junction of Routes 3 and 46 on Valley Road.

BY CAR FROM:

Bloomfield Ave., Montclair: North on Valley Road (by fire department), 3.3 miles to Normal Avenue light, turn left.

Route 46 (East and West): Valley Road, Montclair exit (at Route 3 junction), south for approximately one mile to Normal Avenue light, turn right.

Route 3: Valley Road, Montclair exit (at Route 46 junction), south for approximately one mile to Normal Avenue light, turn right.

Garden State Parkway North: Exit 153B (left land) to Route 3 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

Garden State Parkway South: Exit 154 to Route 46 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

New Jersey Turnpike: Exit 16W to Route 3, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right. Motorists traveling on the Turnpike South to Exit 11 may exit there to Garden State Parkway North.

Lincoln Tunnel: follow to Route 3.

George Washington Bridge: Route 80 to Garden State Parkway south.

BY PUBLIC TRANSPORTATION FROM:

New York City (by bus): DeCamp Bus No. 66 leaves Platform 417, Port Authority Bus Terminal at half past the hour. Get off at Mt. Hebron and Valley Roads, turn right (north) on Valley and walk one long block to the Normal Avenue traffic light, then turn left to campus entrance.

New York City (by train): Take PATH service to Hoboken, transfer to NJ Transit Boonton Line, and get off at Montclair Heights Station at southwest corner of campus. (Service available only in the afternoon and evening.)

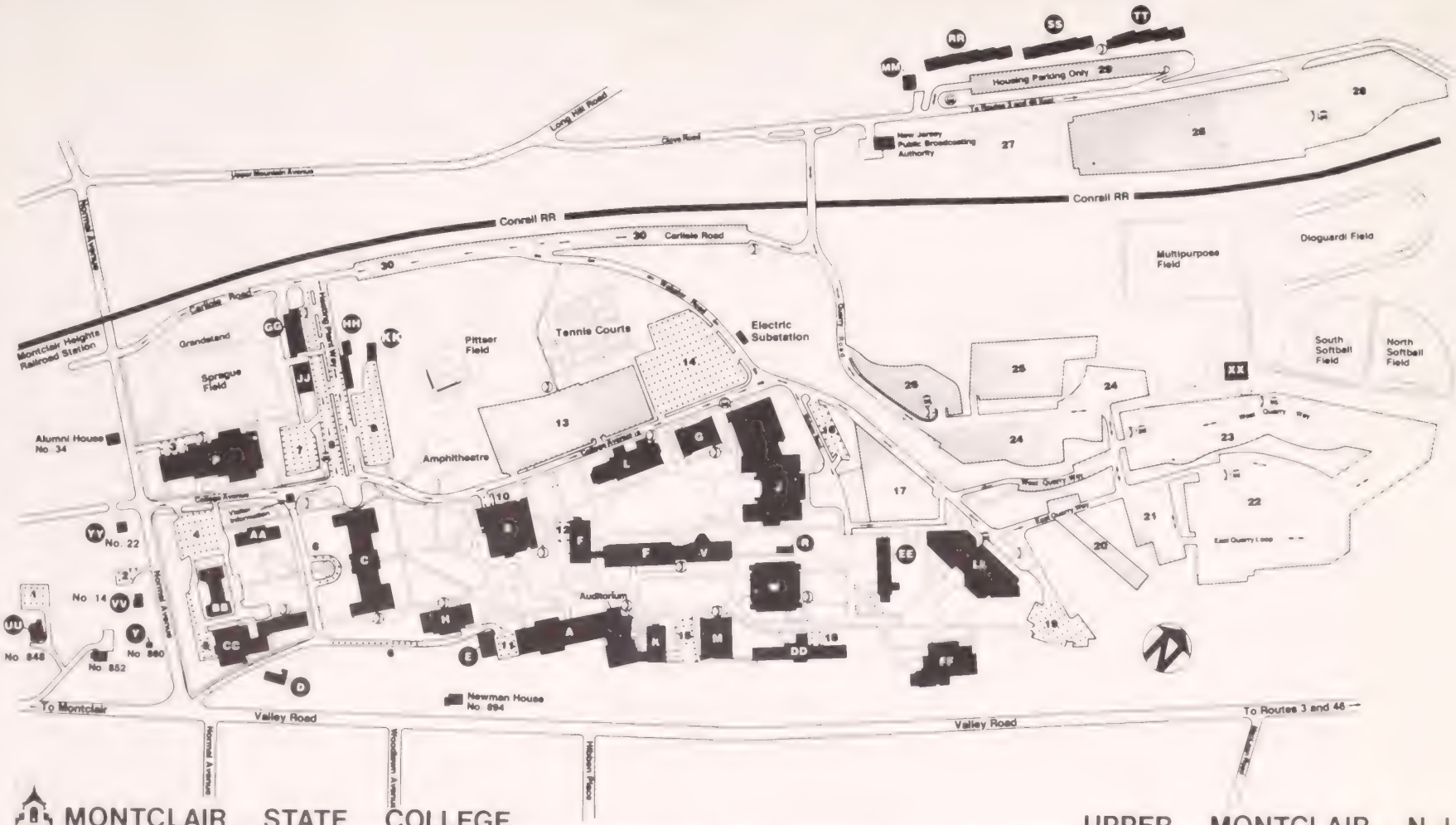
Newark: Transport of New Jersey Bus No. 28 originates at Macy's, Market and Washington Streets and terminates its run on campus. Every 17 minutes.

The Oranges: New Jersey Transit Bus No. 97 originates at Veterans Administration Hospital, Tremont Avenue, East Orange, travels along main streets in the Oranges to Bloomfield Avenue, Montclair. Change to No. 28 at Montclair Center. Once an hour.

Paterson: New Jersey Transit Bus No. 72 originates at Broadway terminal, Paterson and goes to Broad Street, Bloomfield. Change to No. 28 at Bloomfield Center. Every 45 minutes.

Jersey City: Friendly Bus Service No. 22 originates at Platform D4 in Journal Square PATH Center, and ends its run on campus. (Last bus leaves MSC at 6:18 p.m.)

Wayne, New Jersey: Transit Bus P5 originates at Willowbrook Mall and ends its run on campus.



MONTCLAIR STATE COLLEGE

UPPER MONTCLAIR N.J.

TELEPHONE 201 893 4000

PARKING

1 FACULTY and STAFF
2 FACULTY and STAFF
3 PHYSICAL EDUCATION and ATHLETIC DEPT
4 FACULTY and STAFF
5 STUDENT HOUSING STAFF
6 VISITOR
7 FACULTY and STAFF
8 FACULTY and STAFF
9 FACULTY and STAFF (Compact Cars Only)
10 LIBRARY FACULTY and STAFF
11 FACULTY and STAFF
12 INDUSTRIAL ARTS DEPT FACULTY and STAFF
13 STUDENT
14 FACULTY and STAFF
15 DISABLED
16 VISITOR
17 STUDENT
18 STUDENT HOUSING STAFF
19 STUDENT HOUSING STAFF
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30 STUDENT

SYMBOLS

EMERGENCY PHONE
SHUTTLE BUS STOP

BUILDINGS

A LIFE HALL MEMORIAL HALL FINE and PERFORMING ARTS
C COLLEGE HALL — ADMINISTRATION & ADMISSIONS
D GILBRETH HOUSE — PSYCHOLOGICAL SERVICES
E ACADEMIC ADVISING & TUTORIAL CENTER
F FINLEY HALL
G PARTRIDGE HALL — HUMANITIES
H MOREHEAD HALL BUSINESS ADMINISTRATION
J STUDENT CENTER
K SPEECH BUILDING
L CALCIA FINE ARTS BUILDING
M McEACHERN MUSIC BUILDING
P PANZER SCHOOL CENTER — GYMNASIUM and SWIMMING POOL
R DROP-IN CENTER
S SPRAGUE LIBRARY
V MALLORY HALL
W RICHARDSON HALL — MATHEMATICAL & NATURAL SCIENCES
Y CONTINUING EDUCATION
AA CHAPIN HALL — PROFESSIONAL STUDIES CAMPUS POLICE
BB RUSS HALL — SOCIAL SCIENCES
CC FREEMAN HALL — STUDENT HOUSING
DD STONE HALL — STUDENT HOUSING
EE WEBSTER HALL — STUDENT HOUSING
FF BOHN HALL — STUDENT HOUSING
GG MAINTENANCE BUILDING
HH POWER AND ENERGY LABORATORY
JJ HEATING PLANT
LL BLANTON HALL — STUDENT HOUSING & HEALTH CENTER
MM PSYCHO EDUCATIONAL SCHOOL
RR CLOVE RD APTS (100) — STUDENT HOUSING
SS CLOVE RD APTS (200) — STUDENT HOUSING
TT CLOVE RD APTS (330) — STUDENT HOUSING
UU VAN REYPER BOND HOUSE
VV PHILOSOPHY FOR CHILDREN
XX RECREATION BUILDING
YY FACULTY STUDENT COOPERATIVE INC

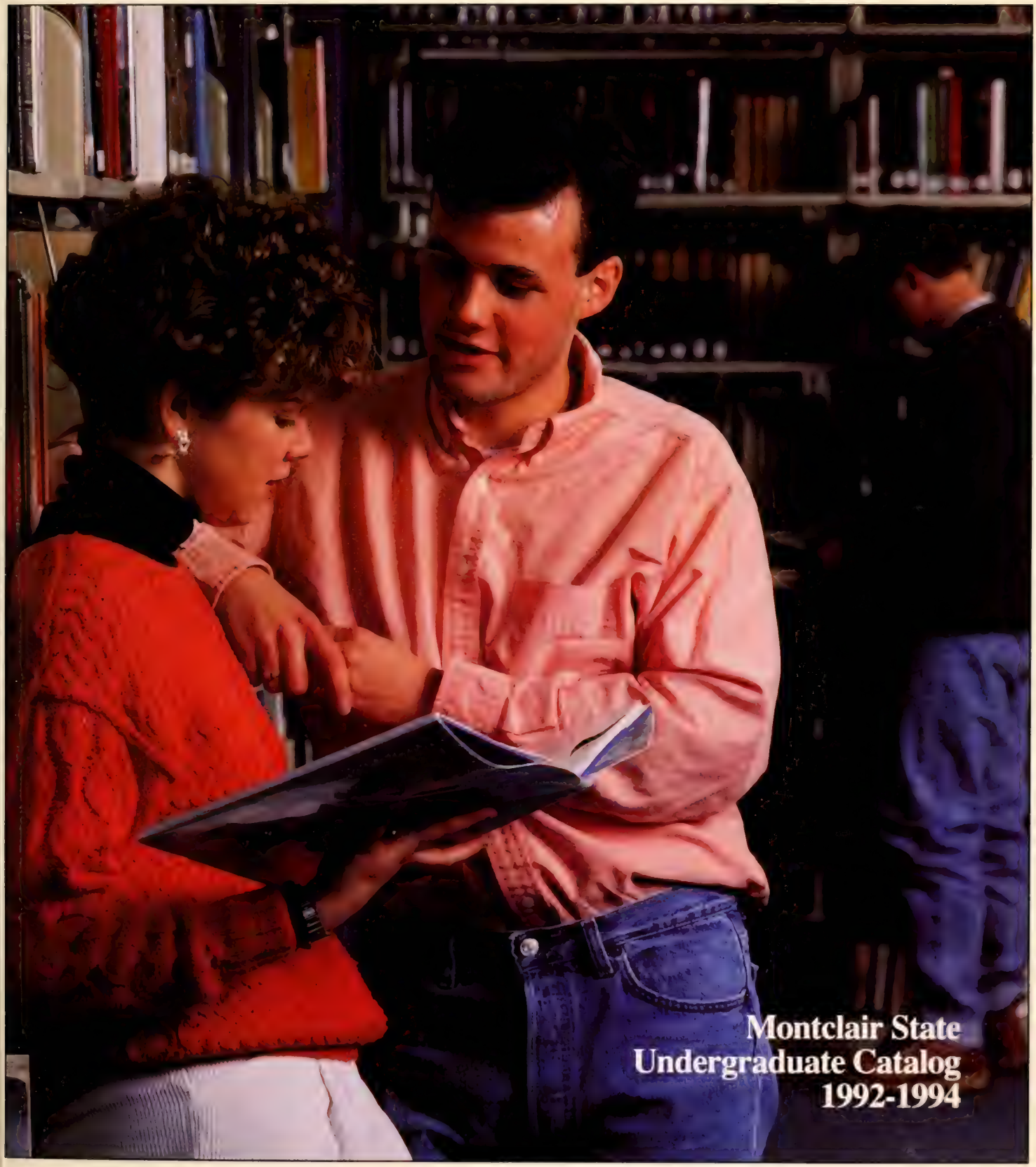
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Upper Montclair, NJ 07043

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Montclair



Montclair State
Undergraduate Catalog
1992-1994

Montclair State College at a Glance

Location:

200-acre campus, at the intersection of Valley Road and Normal Avenue, Upper Montclair, New Jersey (Essex County), one mile south of intersection of Valley Road and Route 46. Main entrance on Normal Avenue.

Background:

Established in 1908, and is a state-assisted, coeducational, comprehensive multi-purpose public institution of higher education with a wide range of undergraduate and graduate programs. Has offered Master of Arts programs since 1930, Master of Business Administration since 1981 and Master of Education since 1985.

Enrollment:

About 10,350 undergraduates and 3,400 graduate students in Fall, 1991. Students come from all New Jersey counties, from other states, and from foreign countries. Some 2,000 live on campus with the remainder living in off-campus accommodations or commuting from home.

Faculty:

The college has 442 full-time faculty members. About 84 percent have terminal degrees.

Accreditation:

Accredited by the Middle States Association of Colleges and Schools, and by the National Council for the Accreditation of Teacher Education.

Degrees Offered:

Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, Bachelor of Music, Master of Arts, Master of Arts in Teaching, Master of Education and Master of Business Administration.

Facilities:

Ten major academic buildings, student center building, library, gymnasium, playing fields, administration building, and housing for 2,000 students in residence halls and apartments. Construction of new academic building and additions to the library and Fine and Performing Arts building are underway.

Costs:

Annual tuition and fees (1991-1992): $2,612.80 (based on 32 semester hours, undergraduate, New Jersey resident). Annual room and board (1991-1992): $4,548 (based on single room and 19-meal plan). Rates are subject to change without notice.

Financial Aid:

Some form of aid is provided to approximately 50 percent of qualified students. Aid is available as loans, scholarships, grants, and employment.

Montclair State is an Equal Opportunity/Affirmative Action Institution. In compliance with relevant federal and state civil rights legislation, the College does not discriminate on the basis of gender, race, color, religion, national origin, age, physical capability or sexual orientation in the operation of its educational program and activities (admission, access to programs and course offerings, physical education, competitive and intramural athletics, counseling, student and other employment, use of facilities, and College sponsored extracurricular activities).

Inquiries relating to equal opportunity/affirmative action issues may be directed to the offices of Student Development and Campus Life or Equal Opportunity/ Affirmative Action.

The Undergraduate Catalog of Montclair State is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change any of its announcements, regulations or requirements at any time without notice or obligation. The Office of Academic Affairs is responsible for the preparation of the content of this publication.

Undergraduate Catalog 1992-1994

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(800) 624-7780

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(800) 331-9205

Financial Aid
321 College Hall
(201) 893-4461

Registrar
204 College Hall
(201) 893-4376, 4136
(800) 331-9204

Residence Facilities
411 Bohn Hall
(201) 893-5188

Montclair State College
Upper Montclair, N.J. 07043

June, 1992

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Statement on the Undergraduate Program

The Board of Trustees of Montclair State College reaffirms its belief that the liberal arts and sciences form the essential basis of an undergraduate program of higher education.

In an era of decreasing resources, diminished public support, and increased popular interest in vocationalism, there are strong pressures to succumb to temporary concerns, and in doing so to lose sight of the enduring and essential purpose of a college education. There are also economic and political forces which, if not constrained by thoughtful response, threaten the integrity of academic processes and the quality of academic standards of institutions of higher education everywhere.

The Board of MSC believes that the College has the special purpose of contributing to, critically examining, preserving and transmitting the culture of our society to succeeding generations, and that the protection of this purpose is the public trust for which we are primarily responsible. We believe that the progress of the College towards this goal has been exemplary, and in particular we applaud the steps already taken by the faculty and administration to maintain and enhance these values. Consistent with the policy and planning function of the Board, however, we believe that faculty and administration efforts might be enhanced by an understanding of what the Board sets forth as a vision of the undergraduate program:

1. a rigorous and comprehensive program of general education required of all students which includes not only advanced learning skills and preparation for effective citizenship, but which also fosters an appreciation of a shared human heritage leading to the enhancement of the quality of both personal and community life;

2. an enrollment reflecting a balance between those students majoring in liberal arts programs, and those in professional and career programs which in addition to their own strengths, are soundly rooted in and related to the strengths of our liberal arts departments;

3. support programs which assist underprepared students who share our goals to meet the demanding standards of which we think they are capable if suitably challenged, excited and educated;

4. ongoing processes of program review and evaluation in which the joint efforts of faculty, administration and Board ensure maintenance of the highest standards of quality;

5. a diverse student body reflecting different cultural and social backgrounds, but united by a common commitment to the academic values for which the College stands;

6. programs which strengthen the efforts of an able and dedicated faculty and which support the scholar's continuing need for intellectual and personal renewal.

In setting these general goals, the Board recognizes the difficult economic and political environment likely to face higher education in the future, and that many other institutions have chosen to confront these challenges in a manner different from our own. We believe, however, that the need to create a distinctive mission and climate for the College and to prepare students fully for an uncertain but clearly difficult future requires us to make this commitment.

It is the Board's intent to view its future consideration of new policies and programs within the context of this statement, and to have prepared for campus discussion a brief annual report concerning activities and progress in each of the six areas.

Academic Calendar 1992-1994*

Fall Semester	1992-1993	1993-1994
Classes Begin	September 1	September 1
Labor Day Holiday (No Classes)	September 7	September 6
Thanksgiving Holiday (No Classes)	November 26-29	November 25-28
Classes End	December 16	December 16
Examination Period	December 17-23	December 17-23
End of Semester	December 23	December 23
Winter Session		
Classes	January 4-22 (15 sessions)	January 3-21 (15 sessions)
Spring Semester		
Classes Begin	January 25	January 24
Spring Recess (No Classes)	March 22-28	March 21-27
Easter Holiday (No Classes)	April 9-11	April 1-3
Classes End	May 18	May 17
Examination Period	May 19-25	May 18-24
End of Semester	May 25	May 24
Summer Sessions		
Pre-Session (No Friday Classes)	June 1-17 (11 sessions)	May 31-June 16 (11 sessions)
Saturday Classes	June 12-August 14 (10 sessions)	June 11-August 13 (10 sessions)
Eight-Week Session (No Friday Classes)	June 14-August 5	June 13-August 4
Six-Week Session (No Friday Classes)	June 28-August 5	June 27-August 4
Independence Day Holiday (No Classes)	July 5	July 4
Post-Session (No Friday Classes; Steam Shutdown)	August 9-26 (12 sessions)	August 8-25 (12 sessions)

***The College reserves the right to modify this calendar.**

About Montclair State

From its founding in 1908, the history of Montclair State has been one of change, growth and distinction.

Established as a normal school in 1908 in response to the growing demand for professionally trained teachers, the school became Montclair State Teachers College in 1927, dedicated to the education of secondary school teachers through a four year Bachelor of Arts degree program. Part-time, extension and summer courses were added to meet the professional needs of teachers, and in 1932 Montclair was authorized to offer the master's degree. With its strong emphasis on the liberal arts and sciences, Montclair in 1937 became one of the first teachers' colleges accredited by the Middle States Association of Colleges and Schools. Responding to rapid enrollment growth in the late forties and fifties with an expanded curriculum and faculty, the campus became Montclair State College in 1958 and a comprehensive, multipurpose institution in 1966.

With a fall 1991 enrollment of about 13,750 students, Montclair is among the largest of New Jersey's state colleges. It offers 43 undergraduate majors, 30 graduate majors and numerous interdisciplinary programs, minors and concentrations through five schools: Business Administration, Fine and Performing Arts, Humanities and Social Sciences, Mathematical and Natural Sciences, and Professional Studies. Montclair State is nationally recognized for the strength of its teacher education program, and its cooperative education program places almost 600 students a year. Montclair is unique among New Jersey's state colleges in maintaining Classics and Linguistics departments, and its program in Music Therapy is also exceptional. The College Honors Program provides a lively and creative environment to support the academic and intellectual interests of outstanding students, and the International Studies Program fosters a sense of global awareness and cultural diversity through new curricular projects, exchanges, conferences, lectures and colloquia. The College's Institute for the Advancement of Philosophy for Children trains teachers from around the world in the application of logical thinking to the elementary school classroom, while Project THISTLE (Thinking Skills in Teaching and Learning) improves the basic skills of urban college-bound students by working with teachers in the Newark public schools. The College's Health Careers Program, the EOF (Educational Opportunity Fund), Legal Studies/Skill Development Program and the Weekend College for Spanish-speaking or bilingual students are examples of the creative responses undertaken to combine access with academic excellence. Montclair is proud of the fact that its black student profile increased during a period of statewide decline, and is currently reviewing all of its recruitment and retention efforts to identify additional methods to improve the institutional response to this pressing need.

Montclair's leadership in the arts is reflected in its designation by the state as a Center of Excellence in the Fine and Performing Arts, and throughout the year the College presents major music, dance, theatrical, literary and artistic activities to audiences from the metropolitan area. Public workshops, lectures, demonstrations and conferences are also offered by a number of departments and programs and regularly feature distinguished scholars and experts from a variety of disciplines. Approximately 1400 academically gifted students from grades 4 through 10 take part in advanced instructional programs offered weekends on campus, while close to 250 musically talented youngsters receive instruction through the Music Preparatory division each year. The New Jersey School of the Arts provides additional opportunities for about 300 gifted high school students to study art, music, dance, theatre and creative writing with nationally recognized faculty and visiting artists on campus throughout the year. In the summer of 1986, the College received a $5.7 million Challenge Grant award to support a wide range of arts-related programs designed to improve career entry opportunities for students in the arts, while also enriching the College's general education program.

The College's Psychoeducational Center provides special services to children with learning, reading, speech and other disabilities, while the Center for Continuing Education offers a variety of adult education programs including ESL (English as a Second Language) and career and professional training for industrial and sales workers, hospital and nursing home workers, and other groups.

In all of its activities, Montclair State remains committed to its primary mission of providing high quality undergraduate and graduate programs to the citizens of New Jersey and beyond. The Institute for Critical Thinking at Montclair State, designed to support and enrich faculty development efforts toward critical thinking as an educational goal, was established in 1987 with funding under the Governor's Challenge for Excellence Program. The primary purpose of the Institute is to serve as a catalyst in the development of educational excellence across the curriculum at the College. A collaborative, multidisciplinary approach to faculty and curriculum development is in process, with attention to the study of both the theoretical aspects of critical thinking across the disciplines and their implications for teaching and learning at the college level. Leadership roles have also been assumed in helping other colleges and schools to incorporate critical thinking into their curricula.

As part of its efforts, the Institute for Critical Thinking produces a monthly newsletter, *Inquiry: Critical Thinking Across the Disciplines*, as well as other publications. Conferences, lecture series, seminars, and other events sponsored by the Institute are open to all members of the academic community, including students and parents.

Degree Programs and Concentrations*

ADMINISTRATION AND SUPERVISION ..... M.A.
- Educator Trainer

ALLIED HEALTH SERVICES ..... B.S.

ANTHROPOLOGY ..... B.A.

APPLIED SOCIOLOGY ..... M.A.

BIOCHEMISTRY ..... B.S.

BIOLOGY ..... B.S., M.A.

BUSINESS ADMINISTRATION ..... B.S., M.B.A.
- Accounting
- Finance
- Management
- Marketing

BUSINESS ADMINISTRATION ..... B.S.
- Economics
- General Business
- Office Systems Administration
- Quantitative Methods
- Retail Merchandising and Management

BUSINESS ADMINISTRATION ..... M.B.A.
- Business Economics
- Quantitative Analysis

BUSINESS EDUCATION ..... B.S., M.A.
- Distributive Education

CHEMISTRY ..... B.S., M.A.

CLASSICS ..... B.A.

COMMUNICATION SCIENCES AND DISORDERS ..... M.A.
- Audiology
- Early Childhood Special Education
- Learning Disabilities (Teacher-Consultant)
- Speech-Language Pathology (Correctionist)

COMPUTER SCIENCE ..... B.S.
- Analysis and Theory

COMPUTER SCIENCE ..... M.A.
- Applied Mathematics
- Applied Statistics

COUNSELING, HUMAN SERVICES AND GUIDANCE ..... M.A.
- Human Services

DANCE ..... B.F.A.

ECONOMICS ..... B.A.
- Business Economics

EDUCATION ..... M.Ed.
- Critical Thinking

EDUCATIONAL PSYCHOLOGY ..... M.A.

ENGLISH ..... B.A.
- Creative Writing

ENGLISH AND COMPARATIVE LITERATURE ..... M.A.

ENVIRONMENTAL STUDIES ..... M.A.
- Environmental Education
- Environmental Health
- Environmental Management
- Environmental Science

FINE ARTS ..... B.A.
- Fine Arts Education (Art)

FINE ARTS ..... B.A., M.A.
- Art History
- Studio

FINE ARTS ..... B.F.A.
- Studio

FRENCH ..... B.A.
- Translation

FRENCH ..... M.A.

GENERAL HUMANITIES ..... B.A.

GEOGRAPHY ..... B.A.
- Urban Studies

GEOSCIENCE ..... B.S., M.A.

GERMAN ..... B.A.

HEALTH EDUCATION ..... B.S.
- Community Health Services

HEALTH EDUCATION ..... M.A.

HISTORY ..... B.A.

HOME ECONOMICS ..... B.A.
- Consumer Affairs
- Family and Child Studies
- Fashion Studies
- Home Economics Education (Comprehensive)

HOME ECONOMICS ..... B.S.
- Foods and Nutrition
- Food Service Management

HOME ECONOMICS ..... M.A.
- Family Life Education
- Family Relations/Child Development
- Home Economics Education (Comprehensive)
- Home Management/Consumer Economics

INDUSTRIAL TECHNOLOGY AND EDUCATION ..... B.S.
- Industrial Technology

INDUSTRIAL TECHNOLOGY AND EDUCATION ..... M.A.

ITALIAN ..... B.A.

LATIN ..... B.A.

LINGUISTICS ..... B.A.

MATHEMATICS ..... B.S.
- Applied Mathematics

MATHEMATICS ..... M.A.
- Computer Science
- Mathematics Education
- Pure and Applied Mathematics
- Statistics

MOLECULAR BIOLOGY ..... B.S.

MUSIC ..... B.A.
Music Education (Comprehensive)

MUSIC ..... B.Mus.
Performance
Theory Composition

MUSIC ..... M:A.
Music Education (Comprehensive)
Performance
Theory Composition

MUSIC THERAPY ..... B.A.

PHILOSOPHY ..... B.A.

PHYSICAL EDUCATION ..... B.S.
Adult Fitness Program

PHYSICAL EDUCATION ..... M.A.
Coaching and Sports Administration
Exercise Sciences
Teaching and Administration of Physical Education

PHYSICS ..... B.S.

POLITICAL SCIENCE ..... B.A.

PRACTICAL ANTHROPOLOGY (Five-year combined undergraduate and graduate program) ..... M.A.

PSYCHOLOGY ..... B.A.
Community Psychology

PSYCHOLOGY ..... M.A.
Clinical Psychology for Spanish-English Bilinguals
Industrial and Organizational Psychology

READING ..... M.A.

RECREATION PROFESSIONS ..... B.S.
Commercial Recreation and Tourism
Therapeutic Recreation

RELIGIOUS STUDIES ..... B.A.

SOCIAL SCIENCES ..... M.A.
Anthropology
Economics
Geography
History
Sociology
Urban Studies

SOCIOLOGY ..... B.A.

SPANISH ..... B.A.
Translation

SPANISH ..... M.A.

SPEECH AND THEATRE ..... B.A.
Broadcasting
Communication Studies
Speech/Theatre Education (Speech Arts/Dramatics)
Theatre

SPEECH AND THEATRE ..... M.A.
Communication Arts
Theatre

STATISTICS ..... M.A.

TEACHING ..... M.A.T.
Teaching Middle School Philosophy

THEATRE ..... B.F.A.
Acting
Design/Production

**Additional minors and certification programs are offered. Check index for reference to appropriate sections of catalog.*

Accreditations and Memberships

Montclair State is accredited by the Middle States Association of Colleges and Schools. In addition, the National Council for the Accreditation of Teacher Education has granted accreditation for the preparation of elementary and secondary school teachers as well as school service personnel. These programs are also approved by the New Jersey Department of Education using the standards of the National Association of State Directors of Teacher Education and Certification.

Other academic accreditations include the American Dietetic Association, American Home Economics Association (Department of Home Economics, School of Professional Studies), American Speech-Language-Hearing Association (Department of Communication Sciences and Disorders, School of Humanities and Social Sciences), National Association of Schools of Art and Design (Department of Fine Arts, School of Fine and Performing Arts), National Association of Schools of Dance (Department of Broadcasting, Speech Communication, Dance and Theatre, School of Fine and Performing Arts), National Association of Schools of Music (Department of Music, School of Fine and Performing Arts), National Association of Schools of Theatre (Department of Broadcasting, Speech Communication, Dance and Theatre, School of Fine and Performing Arts), and National Recreation and Park Association (Department of Physical Education, Recreation and Leisure Studies, School of Professional Studies). In addition, the undergraduate minor in Paralegal Studies offered by the Department of Legal Studies, School of Humanities and Social Sciences, has been approved by the American Bar Association; programs offered by the Department of Chemistry, School of Mathematical and Natural Sciences, have been approved by the American Chemical Society; and the undergraduate program in Music Therapy offered by the Department of Music, School of Fine and Performing Arts, has been approved by the National Association for Music Therapy.

The College is a member of the American Assembly of Collegiate Schools of Business, American Association of Colleges for Teacher Education, American Association of State Colleges and Universities, American Council on Education, Association of American Colleges, Association for Gerontology in Higher Education, Council of Graduate Schools in the United States, New Jersey Association of Colleges and Universities, New Jersey Association of Colleges for Teacher Education, North American Association of Summer Sessions, and Northeastern Association of Graduate Schools. Women graduates of the College are accepted for membership in the American Association of University Women.

Schools of the College

School of Business Administration

Dean: Albert D. Rossetti, Ed.D.

The undergraduate programs of the School of Business Administration develop the ability to assume the positions of decision-making responsibility within business and non-profit institutions. Building upon the liberal arts foundation provided by the General Education Requirements, the curriculum provides a blend of analytical capacities and institutional knowledge which enables students to enter and continuously adapt to our increasingly complex world. The School provides concentrations in Accounting, Finance, General Business, Management, Marketing, Office Systems Administration, Quantitative Methods, Retail Merchandising and Management, and Distributive Education. It also offers a major and minor in Economics. Internships and cooperative education experiences are available; and, professional teacher training is offered in Business Education.

Departments within the School are:

ACCOUNTING, LAW AND TAXATION
BUSINESS EDUCATION AND OFFICE SYSTEMS ADMINISTRATION
ECONOMICS AND FINANCE
MANAGEMENT
MARKETING

School of Fine and Performing Arts

Dean: Geoffrey W. Newman, Ph.D.

Designated as a Center of Excellence in the Fine and Performing Arts, Montclair State College continues its commitment to quality programs in art and education. Its School of Fine and Performing Arts offers graduate and undergraduate programs in fine arts, music, broadcasting, speech communication, dance, and theatre. In 1986, the School of Fine and Performing Arts was awarded the $5.7 million Governor's Challenge for Excellence in the Arts Grant, the largest known arts program grant anywhere. The grant is designed to bridge the gap between the academic and the professional world and expands upon our already exciting arts curriculum and cultural program offerings. The School also includes a Music Preparatory Division, which offers instruction to children from age 3 to high school, and an Office of Special Projects and Cultural Programming which presents major dance, music, theatrical, literary and visual arts events. The School also provides a variety of exhibits in the College Art Galleries and includes the Dumont Television Center.

The School of Fine and Performing Arts provides professional training and education for students seeking careers in the arts, education, public service and management. It presents cultural events and offers courses and experiences in the arts for the enrichment of campus and community life. The resources of the School are taken to the community in the form of lectures, demonstrations and a professional resident theatre company (Theatrefest). The School seeks to stimulate public interest in the arts and to encourage research, creative work and experimentation in the arts.

Departments within the School are:

BROADCASTING, SPEECH COMMUNICATION, DANCE AND THEATRE
FINE ARTS
MUSIC



School of Humanities and Social Sciences

Dean: Philip S. Cohen, Ph.D.

Although the departments that comprise the School of Humanities and Social Sciences have traditionally been concerned with the activities and issues central to the liberal arts and general education, they also offer several programs with specific career objectives.

Each department, with the exception of Legal Studies, offers at least one major program leading to the Bachelor of Arts degree. The Department of Legal Studies offers a minor in Paralegal Studies; it also offers a minor in Pre-Law Studies. Teacher certification is available in most fields.

The School continuously examines its curriculum to strengthen current programs and to reflect new directions. The increasingly important role played by computers in the humanities and social sciences is one example of the vitality and relevance of the curriculum. It also provides numerous opportunities for internship training in business, clinical, governmental, and educational settings, including the Communication Disorders Center and the Psychoeducational Center located on campus. Interdisciplinary and applied minor programs, whereby students may obtain a broad liberal education along with specific career skills are encouraged.

In its brief history, the School of Humanities and Social Sciences has established a unique identity based upon diversity within a unified, organic whole. Its broad spectrum of departments and programs embraces a variety of methods, content and organization, each bearing a special relationship to the others.

Departments within the School are:

ANTHROPOLOGY
CLASSICS
COMMUNICATION SCIENCES AND DISORDERS
ENGLISH
ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES
FRENCH
GERMAN AND RUSSIAN
HISTORY
LEGAL STUDIES
LINGUISTICS
PHILOSOPHY AND RELIGION
POLITICAL SCIENCE
PSYCHOLOGY
SOCIOLOGY
SPANISH AND ITALIAN

School of Mathematical and Natural Sciences

Dean: Vaughn Vandegrift, Ph.D.

Programs within the School of Mathematical and Natural Sciences (SMNS) provide a sound foundation for careers in industry, government, pre-medicine, pre-dentistry and other health professions, as well as for post-baccalaureate studies in graduate or professional schools. Programs leading to teacher certification are also available in appropriate fields.

Under the direction of knowledgeable and dedicated faculty mentors, students have access to unusually extensive facilities and state-of-the-art equipment including scanning and transmission electron microscopes, a cell culture laboratory, an animal room, greenhouse, scintillation counters, Fourier transform nuclear magnetic resonance spectrometers, gas chromatograph/mass spectrometers and X-ray diffraction spectrometers. Undergraduate research programs and internships provide students with a unique opportunity to learn how science is accomplished.

Since scientific computing has unique requirements, the school supports its own local area network (Sci Net). Sci Net consists of a number of state-of-the-art RISC SUN workstations and servers, DEC microVAXen, graphic workstations, IBM PCs and Apple Macintosh microcomputers. Through networking, students in all SMNS departments have access to national and international computer networks and bulletin boards.

A number of programs leading to degrees are administered in the school including: Biology, Biochemistry, Chemistry, Computer Science, Geosciences, Mathematics, Molecular Biology and Physics. In addition, the school houses the Health Careers Program, designed to increase career opportunities for the underrepresented in science.

Departments within the School are:

BIOLOGY
CHEMISTRY AND BIOCHEMISTRY
MATHEMATICS AND COMPUTER SCIENCE
PHYSICS AND GEOSCIENCE

School of Professional Studies

Dean: Nicholas M. Michelli, Ed.D.

The School of Professional Studies offers a wide variety of programs leading to professional careers in private industry, government agencies, non-profit organizations, and public and private schools. All programs in the School are firmly grounded in the liberal arts, and include the opportunity for field based internships. Graduate degree programs are offered by all departments.

The School is responsible for the coordination of the college-wide award winning teacher education program. A number of research and service centered projects are operated by the School, including the Life Skills Center, the Center for the Study of Human Sexuality, the Reading and Study Skills Center and Project THISTLE. In addition, the New Jersey School of Conservation, one of the largest environmental and outdoor education centers in the world, is part of the School of Professional Studies.

Departments within the School are:

COUNSELING, HUMAN DEVELOPMENT AND EDUCATIONAL LEADERSHIP
CURRICULUM AND TEACHING
EDUCATIONAL FOUNDATIONS
HEALTH PROFESSIONS
HOME ECONOMICS
PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES
READING AND EDUCATIONAL MEDIA
TECHNOLOGY

Admissions

Address requests for application forms and inquiries concerning admission to: Director of Admissions, Montclair State College, Upper Montclair, New Jersey 07043. Completed applications should be returned to this address accompanied by a $30.00 non-refundable fee. Decisions are announced on a rolling basis beginning in October, until all spaces are filled.

All admissions are made without regard to an applicant's financial circumstances, sex, race, age, religion, national origin, or physical handicap.

Admission Requirements

Full-Time Freshmen

1. An application should be completed and returned as early in the senior year as possible, but no later than March 1.
2. The Scholastic Aptitude Test (SAT) should be taken preferably in November or December, but not later than January of the senior year. The student should request that the College Board forward the results to Montclair State College (College Board Code number 2520).
3. The student is required to have a certificate of graduation from an approved secondary school. A High School Equivalency Certificate is acceptable. Sixteen subject units must be completed according to the following breakdown:

English	4
Social Studies	2
Mathematics*	3
Science (laboratory)	2
Foreign Language	2
Electives (in English, social studies, science, math or foreign language	3
	Total 16

*Admission to computer science requires 4 years of mathematics including trigonometry. Admission to business administration requires Algebra II.

4. Students who wish to enter a specialized field of study are assumed to have prepared for it during the high school years. Achievement scores, though not required, are useful in demonstrating area strength and may be submitted with application materials. Admission to the departments of Fine Arts, Music, or Broadcasting, Speech Communication, Dance and Theatre is gained through departmental tests, auditions, or interviews. Admission to Montclair State College does not guarantee acceptance into a particular department.
5. Application and admission dates for full-time freshmen:

Admission for:	**Completed application on file by:**
Fall semester	March 1
Spring semester	October 15

6. Accepted full-time students are required to pay a non-refundable $50 fee by May 1 to hold their places in the class.

Transfer Students

1. Approximately one-third of new students entering Montclair each year have attended another college.

   To be eligible for consideration for transfer admission, a student is required to have completed a minimum of 15 credits with at least a 2.00 (C) average at another accredited college. In recent years, however, the minimum g.p.a. has been about 2.5. Specific academic programs may have additional requirements. Transcripts of high school and all previous college records are to be forwarded to Montclair State College.
2. Transfer students may attend on either a full- or part-time basis and must choose a major. A departmental interview may be required.
3. Application and admission dates for full-time transfer students:

Admission for:	**Completed application on file by:**
Fall semester	May 1
Spring semester	October 15

4. Transfer students desiring part-time admission follow the application dates listed below for part-time students.
5. International students should follow the application dates listed below for International Students.

Part-Time Students

1. Part-time undergraduate study at Montclair State College offers degree program opportunities to students whose responsibilities limit the time they are able to devote to academic pursuit. A student may also apply to attend classes with no specific degree objective. A maximum of 9 credits per semester may be taken. Although part-time students may register for courses in the day, evening, or weekends, students whose personal schedules will only permit them to take courses in the evening should be aware that only the following majors are currently available after 4:30 p.m. Monday through Thursday:
   Anthropology
   Business Administration
   Computer Science
   Economics
   English
   Environmental, Urban and Geographic Studies
   History
   Home Economics
   Mathematics
   Political Science
   Sociology
2. Application and admission dates for part-time students:

Admission for:	**Completed application on file by:**
Fall semester	June 15
Spring semester	October 15

Educational Opportunity Fund (E.O.F.) Students

1. The Educational Opportunity Fund (E.O.F.) Program at Montclair State College extends the opportunity to attend college to the individual who has potential to succeed, but lacks the educational and financial resources to gain admission through ordinary procedures.
2. Applicants to the E.O.F. Program must be seeking full-time admission, residents of New Jersey for at least one year, from an educationally and economically disadvantaged background, and ineligible for admission by ordinary standards. Counseling, tutorial services and a six-week pre-college summer program are mandatory components of the Program. E.O.F. assists students in adjusting to college life and competing at the college level. Scholastic Aptitude Test (SAT) must be taken no later than January of the senior year.
3. E.O.F. Program applicants file an application for admission to the College along with the Financial Aid Questionnaire according to the full-time freshman application date (March 1) for fall semester admission. In addition, complete the New Jersey Financial Aid Form (N.J.F.A.F.) and forward a copy to the Financial Aid Office, Montclair State College.

   Family Gross Annual Income Limitations for Dependent Student Eligibility:

   Households of 2 persons $15,130

   Add $2,140 for each additional member of household.
4. Independent students may also qualify and should contact the Financial Aid Office regarding income limitations for eligibility.
5. Application and admission dates for E.O.F. students:

Admission for:	Completed application on file by:
Fall semester	March 1

6. Further information may be obtained through the Educational Opportunity Fund Office, College Hall, Room 304-C, telephone (201-893-4384).

International Students

Students from foreign countries file an application for admission through the Office of Admissions.

Students whose native language is not English are required to submit scores from the Test of English as a Foreign Language. Since the I-20 form can be granted only to accepted full-time students, candidates from foreign countries should be aware that they must apply for full-time rather than part-time admission.

Students transferring from another United States College or University will be required to submit the "Foreign Student Advisor's Report."

Transcript Evaluation

Send transcripts of all school records for course-by-course evaluation to:

World Education Services, Inc.
P.O. Box 745
Old Chelsea Station
New York, NY 10113-0745

Request WES to send its evaluation to:

Office of Admissions
Montclair State College
Upper Montclair, NJ 07043

Application and admission dates for full-time International Students:

Admission for:	Completed application on file by:
Fall semester	April 1
Spring semester	October 15

Second Baccalaureate Students

1. Students who have been awarded a baccalaureate degree may obtain a second bachelor's degree in most non-teaching majors at Montclair State. Business administration is **not** available. A minimum of 32 semester hours must be completed at Montclair State College after admission to a second baccalaureate program. The academic departments determine the exact number of semester hours of major and collateral courses to be completed for the second bachelor's degree. Credits earned through this program are considered undergraduate and are assessed at undergraduate tuition and fee rates. These credits are not applicable toward a higher degree at a later date.
2. Students are eligible to apply for admission to a second baccalaureate degree program if they have graduated from an accredited four-year college with a minimum cumulative grade point average of 2.50 based upon a possible 4.00 system.
3. Applications and admission dates for second baccalaureate students:

Admission for:	Completed application on file by:
Full-time Students	
Fall semester	May 1
Spring semester	October 15
Part-time Students	
Fall semester	June 15
Spring semester	October 15

Weekend College Students

Montclair State offers students the opportunity to pursue their education during the weekend. Many Weekend College students are Spanish-speaking and bilingual, or English-speaking seeking valuable cross-cultural contact.

Students attend classes on Friday evening or during the day on Saturday and Sunday. Those who speak English as a second language may enroll in intensive courses to gain college-level proficiency in English. These courses are offered through the Linguistics Department. Other classes are conducted in both English and Spanish. A student who has earned less than 36 credits may apply as an undeclared major. A Spanish major is also available.

Application and admission dates for Weekend College students:

Admission for:	Completed application on file by:
Fall semester	June 15
Spring semester	October 15

Second Careers Students

1. Adults over twenty-five years of age who wish to begin or continue their college education part-time or full-time may receive assistance and support through the Second Careers program.
2. Individuals who have never attended college before take the College Level Examination Program (CLEP) general examinations for possible advanced standing credits and also enroll in a two-credit Reentry Seminar.
3. Individuals reentering college through the Second Careers program may not have earned previously more than 30 transferable credits nor may they have been matriculated students at another college during the two years immediately prior to Montclair State College.

Admission for:	**Completed application on file by:**
Fall semester	June 15
Spring semester	October 15

5. Further information may be obtained through the Second Careers Office, College Hall, Room 306, telephone (201-893-4431).

Readmission

Matriculated undergraduate students who were admitted to Montclair State and leave the institution in good standing and have been in attendance at least one semester (including summer or winter sessions) during the immediate past academic year need not formally apply for readmission, and may continue either full- or part-time study by requesting registration information from the Office of the Registrar. After securing the proper registration forms, they must obtain approvals from an academic advisor before registering.

Matriculated undergraduate students who have not been in attendance for more than one academic year or who are returning from academic furlough or suspension must submit an application for readmission to the Office of the Admissions and be accepted prior to registering.

Provisionally matriculated undergraduate students who have not been in attendance for more than three semesters must submit an application for readmission to the Office of Admissions and be accepted prior to registering.

Basic Skills

The College expects all students to demonstrate proficiency in writing, reading, computation, elementary algebra, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State will be assigned a test date and registration will not be completed until the Basic Skills test scores are in. Developmental courses in reading, writing, and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT and credits will be added to the number of semester hours required to graduate. All students are expected to enroll in required Basic Skills courses during their first semester of attendance. Full-time students MUST COMPLETE ALL REQUIRED DEVELOPMENTAL COURSES DURING THEIR FIRST YEAR of enrollment; part-time students within the first two years of enrollment. Students not completing this requirement may be dismissed from the college.

The MSC basic skills requirement in speech must be fulfilled within a student's first 58 semester hour credits by satisfactory completion of the speech communication requirement or by successful Speech Placement Waiver evaluation. Students may consult the department of Broadcasting, Speech Communication, Dance and Theatre for a fuller description of the program.

Note that Basic Reading Skills, Basic Skills Math I, Basic Skills Math II, and Basic Speech Improvement do not carry graduation credits. However, these courses do provide credits toward a student's full-time status and, with the exception of Math Lab I and II, they do count toward the student's grade point average.

Provisions for Non-Native Speakers of English

Non-native speakers of English will be given a Placement test for English as a Second Language (ESL). Those who achieve a score which indicates a need for ESL instruction will enroll in ESL courses instead of Basic Composition or Freshman Composition and will be exempted from their Basic or Freshman Composition requirement until the necessary ESL courses are completed. Students enrolled in ESL courses should not take the English portions of the New Jersey Basic Skills Exam until their last semester of ESL. ESL Placement Tests are usually given in June, August, and January. The ESL Placement Exam and ESL courses are given by the Linguistics Department.

Tuition and Fees

In order to qualify for the in-state tuition rate, the student, parent(s), or guardian(s) upon whom the student is financially dependent must have lived within the State of New Jersey for a continuous period of one year immediately prior to enrollment. (N.J.S.A. 18:62) All foreign exchange students are considered as non-residents for tuition purposes, regardless of where they reside while attending MSC. Any questions concerning residency status should be directed to the Business Office.

Tuition and fees are subject to change without prior notice.

Tuition

Undergraduate:

N.J. Resident	$65.40 per semester hour
Non-resident of New Jersey	$99.00 per semester hour

Fees

General Service Fee	$3.00 per semester hour
Student Union Building Fee	$8.50 per semester hour
Student Government Association Fee	$3.00 per semester hour (Maximum: $36.00 per registration)
Athletic Fee	$2.50 per semester hour

Montclair State Monthly Payment Plan

This interest-free monthly payment plan allows students to spread any portion of tuition, fees, husing and meals over 10 equal monthly payments. There are no interest charges and the fee for the entire year is only $40. Payments begin on June 1st and end March 1st. You can enter the plan until late July for first semester, and late December for second semester simply by making any payments already due. To receive enrollment information contact the Student Accounts office or call Tuition Management Systems, program administrator at 1-800-722-4867.

Special Fees

Late Registration Fee: for students whose initial registration for the semester is during the late registration	$50.00
Late Payment and/or Dishonored Check Fee	
Minimum Fee	15.00
Maximum Fee	$60.00
Music Fees: Part-time and graduate students registering for applied music courses and private study in composition pay regular tuition and fees, plus $200 per applied music course.	
Parking Fee	$25.00 per year
I.D. Card Replacement Fee (lost card)	$5.00
Library Fines: overdue books, periodicals, etc.	$.05 per day
Student Teaching Fee	$150.00
Transcript Fee	$2.00 per copy

Refund of Tuition and Fees

Tuition and fees are refundable in full if classes are discontinued by the College.

	Per Cent Refunded
Withdrawal before course begins	100%
Withdrawal during first third of course	50%
Withdrawal after the first third of course	none

Refunds for short term courses will be calculated in the same manner at the time of withdrawal.

Students are not permitted to withdraw from courses after the midpoint of the semester. In computing refunds, the date of withdrawal is the date on which the Office of the Registrar receives a written notice from the student or from the date of the postmark for those received through the U.S. mail.

Summary of Expenses

Estimated tuition, fees and expenses* for students attending Montclair State College are as follows for the nine month September-May academic year for a student taking 32 credits:

	New Jersey Commuting Student	New Jersey Student Residing Away From Home	Out-of-State Student Residing Away From Home
Tuition	$2092.80	$2092.80	$3168.00
General Service Fee	96.00	96.00	96.00
Athletic Fee	80.00	80.00	80.00
Student Government Association	72.00	72.00	72.00
Student Union Building Fee	272.00	272.00	272.00
Student Health Insurance (Optional)	90.00	90.00	90.00
Subtotal (payable to College)	2702.80	2702.80	3778.00
Textbooks and Supplies (Estimated)	500.00	500.00	500.00
College Housing (Estimated)	—	2892.00	2892.00
Meals (Estimated) Maximum Meal Plan	—	1476.00	1476.00
Personal Expenses (Estimated)	950.00	950.00	950.00
Total	$4152.80	$8520.80	$9596.00

All Tuition and Fees are Subject to Change

*Tuition, fees and expenses based upon Fall, 1991 figures.

Financial Aid

The Office of Student Financial Aid provides financial assistance to eligible Montclair State students through the following:

Federally Funded Programs

1. College Work-Study
2. Carl D. Perkins Loans
3. Pell Grants
4. Supplemental Educational Opportunity Grants

State of New Jersey Programs

1. Bloustein Distinguished Scholars
2. Educational Opportunity Fund
3. Garden State Scholarship
4. New Jersey Class Loans
5. Stafford (GSL) Loans
6. PLUS Loan
7. Public Tuition Benefits
8. Tuition Aid Grants
9. Veterans Tuition Credit Program
10. Viet Nam Veterans Tuition Aid Program

Information regarding the N.J. Higher Education Assistance Authority Guaranteed Student Loan (GSL), PLUS loan and other financial aid programs may be obtained from the Financial Aid Office. Programs of financial assistance are revised from year-to-year and hence both eligibility criteria and the availability of funds may change. Inquiries for further information and requests for applications should be addressed to:

The Office of Student Financial Aid
C-321
College Hall
Montclair State College
Upper Montclair, N.J. 07043

Scholarships and Awards

Many special awards, funds, and scholarships have been established by the benefactors of the College who share its interest in quality education. A complete list of these opportunities may be found at the back of this catalog in the Appendix of Scholarships and Awards.

Visiting Students

It is the policy of Montclair State not to process financial aid (federal or State, including loans) for "visiting students" attending during the academic year, Summer Sessions or Winter Session. The Financial Aid Office will assist these students with the completion of forms required by their home institution to process financial aid.

Intra-Collegiate Academic Programs

The Office of Intra-Collegiate Academic Programs is the administrative unit which oversees innovative programs designed to meet changing educational needs of both traditional and non-traditional students. It also administers the Academic Advising Center, the Office of Basic Skills and the College Tutorial Center.

Academic Advising Center

Building E
Telephone: 201-893-4106, 4146, 4223, 4237

All matriculated students, full- and part-time, are encouraged to seek regular academic advising during their college years. Advisors assigned to the Academic Advising Center are available both day and evening for students who have not yet declared a major area of study, and also for students who intend to change majors. Advisors in the Academic Advising Center are also responsible for evaluating transfer credits.

Full- and part-time matriculated students who have declared majors are assigned to and counseled by faculty advisors in their respective departments. Additional information on faculty advising may be obtained by calling the Department office.

Undeclared majors are expected to declare a major by the time they have earned 58 credits. Students are encouraged to come to the Academic Advising Center for assistance in making this decision.

Basic Skills Program

Room 221, Richardson Hall
Telephone: 201-893-4476

The Basic Skills Testing Office coordinates and administers the New Jersey College Basic Skills Placement Test (NJCBSPT) to all entering freshmen and readmitted or transfer students with fewer than 26 transferable credit hours. It also monitors the completion of all required developmental courses and administers required post-testing in these courses. Full-time students must complete all required developmental courses during their first year of enrollment; part-time students within the first two years of enrollment.

College Tutorial Center (CTC)

Room 015A, Building E, Lower Level
Telephone: 201-893-4364, 5425

The College Tutorial Center (CTC) is a college wide facility designed to assist students in a variety of basic skills, liberal arts and academic major prerequisite courses. Graduate and undergraduate student tutors provide a combination of individual and small group tutorials. Computer-assisted instruction is offered in a variety of academic disciplines and academic skills development topics. Drop-in tutoring in all subjects is also available. Evening hours may also be arranged.

Students are encouraged to apply for tutorial assistance prior to mid-term to assure maximum academic support.

The Center also offers a variety of workshops on such topics as *Time Management, How to Take Notes, Tips When Studying a Foreign Language, Test Taking Strategies, Basic Skills in English Grammar, and Improving Speech.* Additionally a series of Learning Power videotapes regarding study skills strategies will be on hand during selected hours. The series includes: *Power Strategies for Time Management, Power Strategies for Lecture Notetaking, Power Strategies for Textbook Reading, and Power Strategies for Test Taking.*

Educational Opportunity Fund (EOF)

Room 304C, College Hall
Telephone: 201-893-4385

The Educational Opportunity Fund Program provides special admissions, financial aid, and academic support services for highly motivated students who do not meet regular admissions criteria. Eligible students come from low-income families (under $17,430 for a family of 3) and must be New Jersey residents. Admitted students qualify for enough financial aid to meet college expenses of tuition, fees, room and board, books, and transportation.

EOF students receive a broad range of support services including counseling and tutoring. Freshmen attend a mandatory six-week residential summer session which focuses on academic preparation and helps in making the transition from high school to college. Other services include academic and personal development workshops, computer assisted instruction and tutoring, and legal studies career preparation.

For detailed information, call the director of EOF.

Part-Time Provisionally Matriculated Students

Room 306, College Hall
Telephone: 201-893-4431, 4432, 4433

Students who do not meet admissions criteria for full-time or part-time matriculated status may be accepted by the College on a provisional basis. Under this category, students are limited to a maximum of 9 semester hours each semester. Upon completion of 15-18 semester hours of course work and a grade point average of 2.00 ("C") or better, students are granted matriculation status, after which they may enroll for full-time study.

Provisionally matriculated students who do not meet the minimum retention requirement after 15 semester hours of course work are dismissed from the College.

During the prematriculation period, students are advised individually and in groups by counselors in the ICAP Office. Additional services include Orientation and Advisement for new students and on-going advisement until students earn matriculant status. At that point students who have declared majors will be advised by departmental faculty. Undeclared students will be advised by the Office of Academic Advising until they declare a major. Provisionally matriculated students may attend day, evening or weekend classes.

Program for Academic and Student Support (PASS)

Room 8, Building E
Telephone: 201-893-5425

PASS is designed to provide educational opportunity for a select group of educationally underprepared students. The mission of PASS is to help make college a reality for this group of highly motivated students who lack the credentials to meet the criteria for college entrance. PASS recruits its population through the EOF program applicant pool.

PASS students are provided with special services such as counseling and tutorial assistance. They are also encouraged to enroll in a course entitled *College Learning and Thinking Skills* as an introduction and orientation to college academic and social life.

For additional information call the director of PASS.

Second Careers Program

Room 306, College Hall
Telephone: 201-893-4431

This Program is designed for adults, aged 25 and older, who want to begin or resume study for a bachelor's degree either part-time or full-time. It recognizes and addresses the unique problems of adult learners by providing pre-admission and post-admission counseling, a re-entry seminar that focuses on adults entering or returning to college, flexible class scheduling and an opportunity to earn advanced credits through the College Level Examination Program (CLEP) general examinations.

The Program offers a Study Skills and CLEP Orientation Workshop series on Saturdays beginning in early January and again in early September each year. Another series of mini-seminars on "Is College for Me?" is also scheduled each semester for prospective students. Second Careers Program alumni serve as panelists discussing issues relevant to entering or returning adult students.

For further information about the Second Careers program, call the director.

Upward Bound Project

Room 401, Chapin Hall
Telephone: 201-893-4187

This program was established for high school students from low-income families who have inadequate secondary school preparation. It is a pre-college program that helps students to acquire the skills and motivation necessary for higher education.

Sponsored by Montclair State College, the program is fully funded by the United State Office of Education. The summer phase of the Project is held at Montclair State College and the academic year component at a site in Jersey City, N.J. About one hundred twenty students, in the ninth, tenth, and eleventh grades, are recruited from Jersey City, and if space is available, from Montclair, Passaic, and Bayonne for the Project.

Weekend College

Room 306, College Hall
Telephone: 201-893-4433

Montclair State College offers men and women the opportunity to attend college during the weekends as a full-time or as a part-time student working toward a bachelor's degree. Classes are offered through the weekend in both the fall and the spring semesters beginning on Friday evenings and continuing on Saturdays and Sundays. A student may take one course or several, on one day, or on all three days. As a student progresses toward the degree, he or she may have to take some of the advanced courses during the week.

Each student has an academic advisor who helps in the proper selection of courses and scheduling that meets the student's needs and interests.

The Weekend College is a valuable cross-cultural experience for the English speaking person seeking to work among the Spanish speaking. Many of the students in the Weekend College are Spanish speaking because a major part of the Weekend College is geared toward providing an education that meets the needs of the Spanish-speaking or bilingual person. It offers an intensive sequence of English as a Second Language courses (ESL I-IV) and two more advanced ESL courses.

To obtain detailed information, contact the Weekend College office.

Resources and Facilities

Academic Advisement

Students are encouraged to seek academic advisement often during their college career. College academic advisors and faculty advisors can help students to plan a program and provide assistance in referring students to other resources, if necessary. Contact the Academic Advising Center, telephone (201-893-4146, 4106, or 7068).

Alumni Association/Office of Alumni Relations

All graduates of Montclair State College automatically become members of the MSC Alumni Association, a non-profit organization that has served alumni since 1910. Contributions to the Alumni Annual Fund allow the Association, working in cooperation with college staff in the Office of Alumni Relations, to support a number of programs including faculty research grants, outstanding graduate student awards, undergraduate scholarships, student project grants, homecoming, reunions, the Presidential Lecture series, affinity card and discount travel programs, conferences, seminars and other noteworthy projects. The Office of Alumni Relations also works with academic and other departments in organizing and promoting targeted alumni programming.

The Office of Alumni Relations is located on the second floor of the Alumni House, 34 Normal Avenue, Upper Montclair, (across from the football field), telephone (201-893-4141).

Bookstore

The College Store is located on the lower level of the Student Center. Normal hours of operation are Monday through Thursday, 8:30 A.M.-8:00 P.M. and Fridays, 8:30 A.M.-4:30 P.M. Extended hours are available at the beginning of each semester. Telephone (201-893-4310).

The College Store carries required textbooks and supplies as well as a wide variety of other merchandise. In many cases, textbooks are available for purchase several weeks prior to the beginning of the semester. It is recommended that students bring their course schedules to the College Store to aid in the selection of books, which should be purchased early. During the fall and spring semesters, undamaged books may be returned within ten calendar days of the first day of class provided that students produce sales receipts.

Campus Employment

College Work Study Program (CWSP) makes it possible for a student to earn money in a federally supported work-study program in the community or on campus. Eligibility is based on need as determined by the New Jersey Financial Aid Form. Earnings can only be used for educational expenses. To apply, contact the college's Financial Aid Office for the correct form.

Information on this program is available through the Financial Aid office, 321 College Hall, telephone (201-893-4461).

Student Assistants Work Program (SA) involves various jobs on campus. To apply, contact the Career Services office, telephone (201-893-5194).

Campus Ministry Programs

While Montclair State does not have a House of Worship, student needs are served through religious groups, chartered by the SGA. These groups include: Chi Alpha Christian Fellowship, InterVarsity Christian Fellowship, the Jewish Student Union, Montclair Protestant Foundation and Newman—the Catholic Campus Ministry. Chaplains and Campus Ministers can be reached at: Newman Center: (201-746-2323 or 893-7240); Jewish Student Union; (201-893-5280); Campus Ministry Office: (201-893-5364).

Career Services

Career Services assists students with all phases of their career development, from choosing a major and finding a part-time job to planning long-range career goals and obtaining full-time work after graduation. In instructional seminars and through individual counseling, students learn how to set career goals, write effective resumes, and conduct successful interviews and job searches. The office has a library where information on careers, employment trends, and employers can be found. Other services which are offered include computerized part-time and full-time job matching systems, and vocational testing. Each year the office attracts more than 200 major employers to campus to recruit seniors. In addition, thousands of full-time, part-time and summer jobs are listed annually.

Career Services is located in the Student Center Annex, Room 104. The office's telephone number is (201-893-5194).

Center for Continuing Education

The Center for Continuing Education serves the immediate and long range education and training needs of business and industry, community organizations, governmental agencies and individual learners. The Center is a revenue-generating unit of the Institution providing quality educational programs and public service activities for which academic credit is not usually awarded. Examples of services include training programs for employee career mobility, professional certification and recertification, instruction in English as a Second Language (ESL), courses in international trade, and computer literacy.

The Center's office is located at 860 Valley Road. The main telephone number is 201-893-4353.

Child Care Center

The Child Care Center has been designed to be an exciting, inviting place where children can explore a wide variety of materials and activities. The Center provides a developmental program for toilet-trained children ages 2 1/2 to 6 years. The Center may be used by Montclair State students, faculty and staff for their children.

The Center is located in Stone Hall and the hours are 7:30 a.m. to 6:00 p.m. Arrangements can be made to provide child care until 8:00 p.m. if the need exists.

For further information and fees, please contact Janey DeLuca, Director, telephone (201-893-7586).

Computer Services Center

The Computer Center (Information Services), located in Room 106, College Hall, provides facilities for both the academic and administrative functions of the institution.

Students, faculty and administrative personnel are afforded the use of various computing environments. The central facility contains several large DEC VAX computers running the VMS operating system. Most of the major computer languages (FORTRAN, COBOL, LISP, C, PASCAL, ADA, etc.), statistical packages (SAS, SPSS, MINITAB, etc.) and other applications are accessed through this facility. There is also a major network of SUN minicomputer systems, several IBM PC and APPLE networks, as well as VAX terminal labs for general use. Tying all of this together is a highly integrated network, serving the campus which ties all of these resources into a cohesive unit. This network (MSCnet) is connected to the NSFnet which allows for the communication and connection with colleges, universities, and businesses around the world.

Cooperative Education

Cooperative Education is an experiential education program designed to integrate academic study with supervised and salaried work experiences.

The Program is open to all undergraduate degree-seeking students who have earned 45 credits and maintain a 2.00 GPA. Academic credit is awarded upon successful completion of a co-op term.

Interested students should contact the Cooperative Education office early in their academic career to plan for a co-op term. The office is located in the Student Center Annex, Room 104, telephone (201-893-4426).

Health Center

The College Health Center is staffed by a doctor and four nurses. They provide pre-participation examinations, tuberculosis screening, first aid, pregnancy tests and referrals to personal physicians or specialists.

State law now requires all full-time students to show proof of medical insurance for accident and sickness benefits. Student health insurance is available at a moderate annual premium, payable at registration. Additional information is available from the Health Center, Blanton Hall, telephone (201-893-4361).

Identification Cards

Students, faculty and staff are required to have a College-issued Photo Identification Card. This card must be shown to borrow books or copies of tapes from the Library; to use a book on Library reserve; to use the fieldhouse, and to participate in various activities sponsored by the Student Government Association and Montclair State.

All students currently holding photo I.D. cards will receive validation labels in College Hall, room 204 or 216, at the start of each semester. All new students must have their photo taken at the I-Card Office, Bohn Hall, Lobby Level, Monday through Friday, 8:30 a.m. to 4:30 p.m. upon showing their course schedule or paid receipt. Extended evening and weekend hours are available during the first two weeks of each semester. For more information, please call 201-893-4147.

Intercollegiate Athletics and Campus Recreation

Aligned in the division of Student Development and Campus Life, Montclair State College offers a diversified varsity athletic program of 22 sports for men and women. Student-athletes enjoy competition year-round within NCAA Division III, at the local, regional, and national level. Montclair State College is also a member of the New Jersey Athletic Conference, the Metropolitan Collegiate Athletic Conference, and the Eastern College Athletic Conference.

The women's varsity program includes basketball, cross country, field hockey, soccer, softball, swimming/diving, tennis, indoor/outdoor track, and volleyball.

The men's varsity program includes baseball, basketball, cross country, football, golf, lacrosse, soccer, tennis, indoor/outdoor track, wrestling and swimming/diving. Co-ed cheerleading is also offered.

Panzer Gymnasium Complex—Six lane indoor pool; wrestling and weight rooms; training room; locker rooms with sauna; basketball court and auxiliary gym.

Sprague Field—Astro-turf; seating for six thousand; permanent lighting system (all home football, field hockey, soccer, and lacrosse games are scheduled for this facility).

Pittser Field—Baseball diamond, eight tennis courts and a lighted platform tennis court which is adjacent to field.

Softball Fields—2 lighted fields for greater flexibility of scheduling tournaments, games and practices.

Dioguardi Field—Lighted eight-lane synthetic surface track & field and two natural grass fields for practice and intra-mural use.

The Intercollegiate Athletics Office is located in Panzer Gymnasium, telephone (201-893-5234 or 5236).

Campus Recreation is a unit of the Department of Intercollegiate Athletics. Campus Recreation, in cooperation with the Student Intramural and Leisure Council, provides opportunities for the general student population to participate in a variety of recreational and fitness activities. Intramural leagues include one pitch softball, flag football, volleyball, 3-on-3 basketball, indoor wiffleball, 5-on-5 basketball and softball. Recreational facilities include the Fieldhouse Weight Room, use of Panzer Pool for open swim, open gym hours, aerobics, and special events. The Campus Recreation Office is located in the Fieldhouse, telephone (201-893-7494).

International Studies Program

The Program in International Studies at Montclair State is designed to coordinate ongoing international and global endeavors on campus, to plan for new efforts, and to develop proposals to enhance international programs at the College. Additionally, the program strengthens the international dimension of teaching and research, develops curricula and learning resources related to international studies, and encourages awareness of global issues among Montclair faculty and students as well as the wider community.

The Program in International Studies has both foreign and domestic functions. In addition to working with the International Student Advisor to ease on-campus study and living experiences for our international students, the program director advises American students regarding study abroad opportunities.

STUDY ABROAD. Through its membership in the NJSCCIE (New Jersey State College Council for International Education), Montclair State can send students to Birmingham Polytechnic, the University of Birmingham, Brighton Polytechnic, Coventry Polytechnic, Hatfield Polytechnic, Kingston Polytechnic, Leeds Polytechnic, Middlesex Polytechnic, Newcastle Polytechnic, Nottingham Polytechnic, Portsmouth Polytechnic, University of Reading, South West (Plymouth) Polytechnic, Teeside Polytechnic, and Worcester College in England; University of Limerick in Ireland; Duncan of Jordanstone College of Art in Dundee, Scotland; Royal Melbourne Institute of Technology, University of Melbourne, Victoria College, Footscray Institute of Technology, University of Warrnambool, and University of Wollongong in Australia; University of Copenhagen in Denmark; Hebrew University of Jerusalem and University of Tel Aviv in Israel; University of Haute Savoie at Annecy in France; State University of Rostov in the Soviet Union; and the University of Guadalajara in Mexico. In addition, as a member of the College Consortium for International Studies, NJSCCIE offers study abroad opportunities in China, Colombia, Cyprus, Ecuador, Germany, Greece, Italy, Jamaica, Portugal, Spain, Sweden and Switzerland. NJSCCIE is also a member of the International Student Exchange Program (ISEP), which is based on balanced one-to-one exchanges between U.S. institutions and those in other countries. Through ISEP, students willing to take instruction in English can enroll in institutions in Australia, Belgium, Canada, Cyprus, Finland, Hong Kong, Hungary, Kenya, Korea, Malta, the Netherlands, the Philippines, Sweden, Tanzania, the United Kingdom and Zambia. ISEP sites also enable students to enroll in courses taught in Chinese (Hong Kong), Dutch (Belgium, Netherlands), Filipino (Philippines), Finnish (Finland), French (Belgium, Canada, Côte d'Ivoire, France, Switzerland, Togo), German (Germany, Switzerland), Hungarian (Hungary), Italian ((Italy), Korean (Korea), Portuguese (Brazil), Spanish (Argentina, Colombia, Costa Rica, Dominican Republic, Honduras, Mexico, Spain, and Uruguay), Swedish (Sweden), and Thai (Thailand). Upon successful completion of the program abroad, students are usually assigned 15-16 credits, which may be applied to fulfill general education, major, or elective requirements. Students find that for little more money than they would spend at home they can experience an exciting semester abroad. Students are entitled to the same forms of financial assistance available on campus, since they are technically registered at Montclair State when they spend their semester abroad. In addition to programs offered during the academic year by the International Studies program, individual departments offer opportunities in Argentina, Austria, Brazil, China, Italy, and Spain.

Additional information about the program and application forms is available by contacting the Director of International Studies, Dr. Benjamin F. Hadis, Russ Hall 124, telephone (201-893-7374).

Library

The Harry A. Sprague Library is housed in a centrally located, attractive modern building. The library is designed to provide ample reading and study areas, and easy access to open shelves in pleasant, comfortably furnished surroundings. Combining the best of traditional resources with the latest in non-print communications technology, the three floors of the library form a vast information center.

The library owns more than a million and a quarter items, with about 385,000 books on the shelves, over 2,600 periodical subscriptions, 23,000 government documents, and more than 1.5 million non-print items. The Non-Print Department has equipment for usage of a collection of videocassettes, records, audiocassettes, filmstrips, soundslide sets, and microforms. As a designated government documents depository, the library receives and makes available for public use thousands of Federal and New Jersey State publications.

Public Service and Technical Service librarians are experts both in library science and in an additional subject area. The Reference librarians are dedicated to helping students learn how to approach research assignments as well as locate information. Hundreds of classes in library instruction are conducted each year by the librarians. These range from the basic introductory library lecture to classes in advanced research in the various subject fields. Reference librarians are available to assist students with individual projects and to answer specific reference questions.

The library has the most modern computerized library technology, which provides access to the library's holdings through an on-line system. Interlibrary loan staff locate quickly and send for books and articles that are not in the collection. On-line computerized bibliographic searching and several CD-ROM systems for comprehensive, time-saving coverage of various subject fields are available to students and faculty as regular library services. While these technological changes are important, the library's primary mission is, and will always be, the enhancement and support of the College's educational program through an excellent library collection and by personal attention to each student's individual needs. Telephone (201-893-4291).

Media Center

A well-equipped Media Center is located in College Hall. It takes care of all requests for audiovisual materials, equipment and services. The center also handles the scheduling and rental of films.

On request, the staff will demonstrate audiovisual techniques and design and produce custom graphic materials. The center lends a variety of equipment to students for special projects. Telephone (201-893-4240).

Older Adult Tuition Waiver Program

New Jersey residents 65 years of age or older are eligible to take college courses on a space available, tuition waiver basis. To apply, contact Montclair State College's Center for Continuing Education.

Location: 860 Valley Road, Legge House
Telephone: (201-893-4353).

Panzer School Council

In 1958, Panzer College, a noted single-purpose institution with a rich tradition of developing teachers for physical education and health, was incorporated into Montclair State College and became known as the Panzer School of Physical Education and Hygiene at Montclair State College. The College became the custodian and depository of Panzer College records. The Panzer School Council was established in 1971 during a reorganization of the College. Presently, the Council is part of the School of Professional Studies. Membership consists of the chairpersons of the Department of Health Professions and Physical Education, Recreation and Leisure Studies as well as the Dean of the School of Professional Studies. A major portion of the Council's efforts to aid students in extracurricular activities are actively and generously supported by the Panzer-Montclair State College Alumni Association. Such support takes the form of direct scholarship aid, providing funds for professional conferences, workshops and sports clinics. Telephone (201-893-5167).

Parking and Traffic

Parking is available for students who display current decals or permits in those areas designated on campus maps. Campus shuttle buses are available for transportation from the Quarry lots to upper campus. Decals may be purchased from the business office. Temporary permits may be obtained from campus police headquarters in Chapin Hall.

All N.J. State traffic regulations are enforced at MSC. Campus regulations are listed in the current Schedule of Courses booklet.

Police and Security

The College maintains a full-time police force, whose mission is to protect and serve members of the MSC community. The police enforce all traffic and parking regulations, being empowered to issue both campus and municipal citations. In addition they receive and investigate all reports of crimes, provide crime prevention information and handle medical emergencies.

MSC also has security officers whose primary purpose is the protection of property. (This includes fire safety activities.)

For information about police and/or security; traffic and parking; self protection seminars, and other police-related matters, call Campus Police, Chapin Hall, at telephone (201-893-5222).

Pre-Law Advisor

The College Pre-Law Advisor, Dr. Marilyn Tayler, counsels interested students regarding the possibilities and procedures for law school admissions. The Office of the Pre-Law Advisor is located in the Department of Legal Studies, Partridge Hall 313, telephone (201) 893-4152. The Pre-Law Advisor maintains a library of law school catalogues, as well as other informative materials.

The Department of Legal Studies also sponsors New Jersey's annual statewide law school admissions day, held each Fall on the campus of Montclair State. At this event, prospective law students have the opportunity to meet and speak with the admissions directors of many law schools from throughout the nation.

In planning the appropriate curriculum for the individual student, the Pre-Law Advisor also provides assistance regarding the Pre-Law Studies Minor. This interdisciplinary program is offered through the Department of Legal Studies.

Psychological Services

A staff of professional psychologists and advanced selected interns are available from 8:30 a.m. to 4:30 p.m., Monday through Friday at the Office of Psychological Services. The staff observes the ethical standards of the American Psychological Association, guaranteeing confidentiality.

Services include short-term individual therapy, evaluations, developmental groups and group therapy, computer assisted self help programs, and off-campus referrals and to a variety of community and individual services.

Location: Gilbreth House
Telephone: (201-893-5211).

Psychoeducational Center

The Psychoeducational Center is a campus-based training facility. Its purpose is to provide integrated clinical and educational experiences for students of Montclair State College who are preparing for professional roles as music therapists, speech pathologists, recreation therapists, learning disabilities specialists, or teachers of the handicapped. Training is conducted through the campus demonstration school, communication disorders center, early intervention program, testing center, music therapy clinic and summer programs which provide service to the community. The center is located in Room 118 of the Speech building, telephone (201-893-4255).

The Reading and Study Skills Center

The Reading and Study Skills Center, located in the southwest corner of College Hall, rooms C 101 to C 109, telephone number: (201-893-4247), has faculty and facilities to provide reading and study skills help to college students. Consultation, computer assisted instruction, tutoring and independent activities are available.

Residence Halls

The College offers several choices for student residence. For undergraduates, there are five residence halls, and one apartment complex. They hold 2,000 men and women. There is also off-campus housing for more than 500 in the surrounding community.

New students are given high priority for campus residence, and returning residents have an excellent possibility of reacceptance for succeeding years.

Each hall is staffed by a Residence Hall director and student assistants. They can describe the many activities and organizations available, as well as job and leadership opportunities.

In residence halls, students choose one of the board plans at the dining halls. If they live off-campus or in the apartment complex, they can sign up for a college meal plan or not, as desired.

For further information, contact The Residence Life Office, Bohn Hall, Room 411, telephone (201-893-5188).

Student Center and Annex

The Student Center and Annex is a main gathering point for recreational and social activities. This large modern building has a cafeteria, dining room, convenience store, gameroom, bookstore, flea market, information desk and multiple meeting rooms. It also houses the Office of Cooperative Education, Career Services, and the Student Government Association offices.

The above buildings along with the Field house, offer ample meeting and banquet locations, lounges, a weight room and locker facility, student offices and other services.

Telephone: (201-893-7548).

Summer Sessions

Summer Sessions at Montclair State provides opportunities for people to pursue college studies and take advantage of special educational, cultural and activity programs during June, July and August. Montclair State students, visiting students currently enrolled at other colleges and universities, students who are accepted to begin their college or university studies for the subsequent fall semester and high achieving high school juniors and seniors are encouraged to pursue their undergraduate and graduate studies during summer.

More than 200 undergraduate and 60 graduate credit courses are offered each summer in business, fine and performing arts, humanities, social sciences, mathematics, computer science, natural sciences, education, and professional studies. In addition special non-credit and credit programs and workshops are offered such as the music preparatory for preschoolers through adults, gifted and talented youth three-week day camp for young people who have completed grade 6 but not yet begun grade 11, environmental education at the New Jersey School of Conservation in Sussex County, English language instruction, Educational Opportunity Fund pre-college residential experience and more.

Summer Sessions include a Pre-Session during the first three weeks of June and a Post-Session during the middle three weeks of August. Most of these courses meet on a concentrated Monday through Thursday schedule during the daytime hours. The Six-Week Session is primarily a daytime session, Monday through Thursday with courses beginning the last week in June and ending the first week in August. The Eight-Week Session is primarily an evening program where most courses meet Monday, Tuesday and Thursday evenings from mid-June through the first week of August. A number of science courses meet during the daytime hours over the eight-week period. In addition a small number of courses are offered on Saturday mornings over a ten-week period during the summer beginning in June, and some three-week and four-week short-term courses are offered within the Six-Week and Eight-Week Sessions.

Individuals interested in learning more about Summer Sessions at Montclair State should contact Summer Sessions, 215 College Hall, telephone (201) 893-4352.

Television Center

Arrangements for the viewing, editing, or recording of closed circuit video tapes can be made at the Television Center. Video taping equipment, an audio studio, a variety of post production facilities and two television studios with complementary equipment are available for consulting on television problems, providing demonstrations of television materials and methods and special teaching and training in all aspects of effective television instruction.

Location: 117 Life Hall
Telephone (201-893-4341).

Winter Session

A limited number of courses are offered during a three-week session in January. Most of these courses meet Monday through Friday for approximately three hours each morning. In addition, Winter Session offers students and faculty opportunities to participate in educational activities that do not fit into the traditional fall and spring semesters such as study abroad and skiing. Also there are opportunities to conduct research and participate in special seminars during this period.

The Winter Session schedule is published with the Spring Semester schedule by the Office of the Registrar in October. Registration for Montclair State students takes place at the same time as the Spring semester registration, also in October. Visiting Students interested in Winter Session should contact the Office of the Registrar for a Visiting Student packet.

The Spring Semester and Winter Session Schedule of Courses is available in October from the Office of the Registrar, 204 College Hall, telephone (201) 893-4376.

The Women's Center

The Women's Center, a unit of the Division of Student Development and Campus Life makes available:

1. A reference library;
2. Discussion and support groups;
3. Gender related information through programs and written materials;
4. A referral service on various topics are available to the college community.

The Women's Center is located in the Student Center, rooms 420, 421 and 422, telephone (201-893-5114).

Student Development and Campus Life, Student Activities

Office of Student Development and Campus Life

The Office of Student Development and Campus Life is located in 217 College Hall and exists to provide general assistance to students, faculty, and others when their problems cannot be readily resolved through the College's routine procedures and channels.

The Vice President for Student Development and Campus Life coordinates the activities of: Campus Ministry, Child Care Center, Dean of Students, Health Center, Intercollegiate Athletics and Campus Recreation, International Programs, Psychological Services, Residence Life, Student Activities, Student Center and the Women's Center. In addition, the Vice President, assisted by the Dean of Students and Associate Dean of Students, serves as an advocate on behalf of all students attending the College.

The philosophy of the Student Development and Campus Life Office is to create opportunities for favorable personal development. The following major organizations represent the formal structure supporting that philosophy.

Student Government Association, Inc. (SGA)

All undergraduates are members of the Student Government Association. The SGA provides legal aid, drop-in center, pharmacy program, and other services through fees paid by all full-time and part-time undergraduates.

The legislative branch is composed of student representatives from each school and academic department. The executive branch consists of the president, vice president, treasurer, and secretary.

Class One Concerts (C1C)

C1C gives the College community opportunities to enjoy on-campus concerts by various popular groups and artists. Members learn all phases of concert production, and expand their awareness of professional music presentation.

College Life Union Board (CLUB)

CLUB coordinates social, cultural, and recreational student programs. Movies, trips, parties, and other activities are planned each semester. Annual CLUB events include Winter and Spring Balls, and Spring Day.

Conservation Club

The Conservation Club is MSC's newest Class One Organization. Our purpose is to serve as an educational tool for students who wish to learn more about conservation and environmental issues.

Human Relations Organization (HRO)

HRO serves students with training sessions in group dynamics and psychological development. An HRO weekend is held twice a year at a local camp site for nominal cost. HRO also sponsors on-campus seminars and group interaction during fall and spring semesters.

La Campana

The College yearbook *La Campana* is a yearly reflection of campus activities and concerns through the media of artwork, prose, poetry and photography. Students interested in photography and the graphic arts are encouraged to join.

Latin American Student Organization (LASO)

LASO promotes awareness of the Hispanic culture. This is achieved through informative educational and social programs which promotes an appreciation for an understanding of the culture. Each fall "Latin Month" is planned to provide an opportunity to see and sample the music, art and cuisine of the Hispanic culture.

The Montclarion

The weekly student newspaper keeps the College community abreast of campus news, local events, and happenings at other colleges. Members gain journalistic experience in news, feature, and sports writing, as well as copy editing, layout, typesetting, photojournalism, circulation, and advertising. All undergraduates are eligible for staff positions.

Organization of Students for African Unity (OSAU)

The programming efforts of OSAU are directed to meet the needs of minority students on campus and to expose non-minority students to minority experience. The events are quite diversified and are aimed at fulfilling the cultural, social and educational needs of our students.

Players

Players is a theatre organization which offers students the opportunity to participate in every phase of play production. Full-scale shows are presented each year. Players also sponsor theatre trips to New York City, and presents workshops by guest artists.

Quarterly

Quarterly, the literary and art magazine, also called *Four Walls* seeks original material for publication each semester. It offers students a chance to express and share their individuality with the College community.

Student Intramural and Leisure Council (SILC)

SILC provides students with an opportunity to become involved in intramural sports, recreation and leisure activities. The day-to-day programming offered by SILC includes leagues for men and women in football, basketball, softball, volleyball, tennis, and bowling. It also sponsors badminton, water polo, and pinochle, and special activities such as trips to professional sporting events and a night of roller skating.

WMSC-101.5 FM

WMSC, "the sound choice," is the College radio station run by students. It broadcasts to northeastern New Jersey seven days a week, featuring a wide selection of music and entertainment programming, news and specials. WMSC provides experience for students interested in learning radio production and management, newscasting, and disc jockeying.

Academic Policies and Procedures

Academic Advisement

All matriculated students, full- and part-time, are encouraged to seek regular academic advisement during their college years. Academic advisors are available both day and evening for students who have not yet declared a major and those who intend to change majors. Academic advisors are also responsible for evaluating transfer credits.

Full- and part-time matriculated students who have declared majors are assigned to and counseled by faculty advisors in their respective departments. Additional information on faculty advising may be obtained by calling the Department offices.

Undeclared majors are expected to declare a major by the time they have earned 58 credits. Students are encouraged to come to the Academic Advising Center office(s) for assistance in making this decision.

Advanced Placement

Students with demonstrable equivalencies may, under appropriate circumstances, be exempted from required courses and permitted to take more advanced work. Eligibility for advanced placement may be established on the basis of high school records or by scoring sufficiently well on specialized tests including the Advanced Placement Examination of the College Entrance Examination Board, College Level Examination Program (CLEP) tests, challenge examinations, etc. Students desiring advanced placement are advised to consult with the appropriate department chairperson and school dean to determine specific possibilities within their area of competence.

Attendance

Students are expected to fulfill all course requirements, and although attendance is not always mandatory, it is desirable. Absence from laboratory or studio sessions shall be by agreement with the instructor. Instructors should notify the students, in writing, of what the course requirements will be. Professors may penalize the student for failure to meet specific attendance requirements.

It is the student's responsibility to attend at least one class meeting of all courses for which he/she is enrolled during the first week of the class to confirm his/her registration.

Audit Policy

To "audit" a course is to attend class regularly, without the obligation of participating in class discussions, laboratory work, examination, performances or any class activity other than listening. A course may be audited under the following conditions:

1. Audited courses do not carry academic credit.
2. The College's attendance policy applies to audited courses.
3. Students auditing a course must establish eligibility for admission, register, and pay the required tuition and fees.
4. Students must file an Audit Application with the Office of the Registrar.
5. A course may be audited only if the department chairperson permits, and if there is space in the class.

For students who ALSO registered for courses carrying regular academic credit:

1. Audited courses are considered as part of the students course load which may not exceed the maximum limits.
2. An "audit" may not be changed to "credit" nor a "credit" to "audit" after the first three weeks of the semester.
3. The student's record will show a grade of "AU" for the course if the instructor certifies by such a grade that the prescribed conditions have been met.

For students who are registered ONLY for "audited" courses:

1. The student may not change to a credit basis during the term of enrollment.
2. A student who later seeks credit by examination for a course previously audited must be enrolled in the College at the time that the examination is taken and is subject to such fee charges for the examination as the College may establish.
3. A student who has audited a course may take the course at a later date for credit.

Basic Skills Requirements

The College expects all students to demonstrate proficiency in writing, reading, computation, elementary algebra, and speech. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State will be assigned a test date and registration will not be completed until the Basic Skills test scores are in. Developmental courses in reading, writing, and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT and credits will be added to the number of semester hours required to graduate. All students are expected to enroll in required Basic Skills courses during their *first* semester of attendance. Full-time students MUST COMPLETE ALL REQUIRED DEVELOPMENTAL COURSES DURING THEIR FIRST YEAR of enrollment; part-time students within the first two years of enrollment. Students not completing this requirement may be dismissed from the college.

The MSC basic skills requirement in speech must be fulfilled within a student's first 58 semester hour credits by satisfactory completion of the speech communication requirement or by successful Speech Placement Waiver evaluation. Students may consult the department of Broadcasting, Speech Communication, Dance and Theatre for a fuller description of the program.

Note that Basic Reading Skills, Basic Skills Math I, Basic Skills Math II, and Basic Speech Improvement do not carry graduation credits. However, these courses do provide credits toward a student's full-time status and, with the exception of Math Lab I and II, they do count toward the student's grade point average.

Cancellation of Courses and Staffing

The College reserves the right to cancel any course for which the enrollment is insufficient. Due to the on-line registration process and earlier scheduling, there is a greater potential for course cancellation over the summer. Students may then register, without penalty, for another course for equal credit or receive a full refund of tuition and fees. The College also reserves the right to change faculty assignments and, therefore, cannot guarantee students faculty of their choice.

Class Standing

Sophomore standing is defined as a minimum of 26 semester hours earned with a cumulative grade point average of 1.60 based upon a possible 4.00 system; junior standing is a minimum of 58 semester hours earned with a cumulative grade point average of 1.80; senior-standing is a minimum of 90 semester hours earned with a cumulative grade point average of 2.00. A student must earn at least 128 semester hours with a 2.00 cumulative grade point average as well as a 2.00 grade point average in the major to graduate.

Course Loads

Full-time undergraduate students should earn 15-16 credit hours per semester. Special permission is required to take a Course Overload of more than 19 semester hours. To be considered a full-time student one must register for and continue active enrollment in at least 12 semester hours for the entire semester.

Full-time undergraduate students who have at least sophomore standing (26 credit hours earned) and a 3.00 or above cumulative grade point average or above a 3.00 grade point average for the semester most recently completed may, upon the approval of the Dean of the School in which the student is majoring, register for a Course Overload. A School Dean may make exceptions to the above eligibility criteria for Course Overloads. Requests for Course Overloads of 23 or more credit hours must additionally be approved by the Director of Academic Advising.

The College reserves the right to reduce the course load of any student who registers for more than 19 credit hours without Course Overload approval.

Students enrolled in fewer than 12 credits are considered part-time. Provisionally matriculated students may not register for more than 9 credits per semester.

Course Overlap

Students may not register for courses where there is a time/day overlap. Should such a condition exist, the College reserves the right to drop one of the courses from the student's schedule.

In certain laboratory or studio type courses, in exceptional circumstances, course registration overlap may be permitted with written approval of the instructors of both courses as well as the approval of the dean(s) and chairperson(s) responsible for the instructional area(s).

Students must submit written approval to register for overlapping courses along with their registration.

Credit by Examination and Assessment of Life Experience

Montclair State College offers the opportunity to all students to earn credit through the College Level Examination Program (CLEP). The Advanced Placement Examination of the College Entrance Examination Board (CEEB), the Thomas A. Edison College Examination Program (TECEP), departmental challenge exams or Portfolio Assessment of Experiential Learning at Thomas A. Edison State College are also acceptable ways by which credit may be earned..

The CLEP General Examinations offer entering students the chance to earn up to 24 credits; thus the bachelor's degree may be earned in three years. In addition to the general examinations there are also over 30 CLEP subject examinations. The following policies apply regarding the use of credit from CLEP exams toward the degree at MSC.

THESE RULES APPLY TO ALL STUDENTS ADMITTED EFFECTIVE FALL 1988 OR THEREAFTER AND ALL STUDENTS (REGARDLESS OF ADMISSION DATE) WHO TEST AFTER 9/1/88.

All students are responsible to know and apply the following rules and regulations which govern the application of credit earned through CLEP General and Subject Matter Exams toward the MSC degree. It is very important that all students recognize that ACHIEVING THE REQUIRED TEST SCORE DOES NOT NECESSARILY MEAN THAT CREDIT IS APPLICABLE TOWARD MSC GRADUATION REQUIREMENTS. IN ADDITION, IT IS THE STUDENT'S RESPONSIBILITY TO INSURE THAT HE/SHE IS NOT SEEKING CREDIT FOR A COURSE FOR WHICH PREVIOUS CREDIT WAS GRANTED. Students who fail to adhere to these policies may not be permitted to apply CLEP credit toward the degree regardless of score on the exam.

1. CLEP General Exams must be taken prior to completion of the student's first semester. Students should not register in the first semester for courses for which they plan to seek CLEP credit.
2. Subject Matter exams which are taken for possible use in fulfillment of major or collateral requirements must receive advance written approval of the major department chairperson in the form of a memo to the Director of Academic Advising. Subject exams may not be included within the last 24 credits. (see "residence requirement")
3. Those students seeking credit for ENGL 105—"Freshman Composition" via the CLEP General Exam must include the essay with the English test, and if scoring above the cut-point, will be required to submit a research paper to the Director of Freshman English to fulfill the research component of the college writing requirement. Please note that the essay is not available at each CLEP administration. ONLY STUDENTS PASSING OR EXEMPT FROM THE NEW JERSEY COLLEGE BASIC SKILLS PLACEMENT TEST IN WRITING MAY RECEIVE CREDITS FOR THE CLEP EXAM IN ENGLISH REGARDLESS OF CLEP EXAM SCORE. A student who fails the Writing portion of the Basic Skills test must take ENGL 100 even if achieving an acceptable score on CLEP. Students wishing to use a CLEP Subject Matter exam to obtain credit for Freshman Composition should receive advance written approval from the Freshman English Coordinator.
4. ONLY STUDENTS PASSING OR EXEMPT FROM THE NEW JERSEY COLLEGE BASIC SKILLS PLACEMENT TEST IN COMPUTATION *AND* ALGEBRA MAY RECEIVE CLEP GENERAL EXAM CREDIT IN MATHEMATICS REGARDLESS OF CLEP EXAM SCORE. This policy shall apply to all students seeking Math CLEP credit regardless of major.
5. Students receiving six (6) credits in foreign language will be required to complete an additional six (6) credits of foreign language to fulfill the language requirement. Students earning twelve (12) credits will be required to complete either "Structure of American English," an upper level course in the same language, or a lower level course in a different language.
6. To receive credit a full-time student must earn a minimum of 12 semester hours with a minimum grade-point-average (GPA) of 2.00 in the first semester. A part-time student must earn a minimum of 12 semester hours within the first 14-15 semester hours attempted with a minimum GPA of 2.00.

Students having questions about these guidelines are encouraged to contact the Academic Advising Center (201-893-4106, 4146, 4223, 7068) *before* taking any CLEP tests.

CLEP tests are given nationally during the third week of each month. Testing centers are located throughout the state of New Jersey. For specific information regarding locations, call Educational Testing Service in Princeton, New Jersey.

Montclair State offers students the opportunity to take subject matter challenge examinations for many courses. Not all courses at the College are eligible for credit by examination.

To receive credit by examination:

1. In the first semester, a full-time student must earn a minimum of 12 semester hours with a minimum grade-point-average (GPA) of 2.00.
2. A part-time student must earn a minimum of 12 semester hours within the first 14-15 semester hours attempted with a minimum GPA of 2.00.

Credit for Life Experience

Montclair State College uses the evaluating services of Thomas A. Edison College for those who want life experience credits. All requests for evaluation must be made to Thomas A. Edison College in the first semester of enrollment. This evaluation and a report of credit will be sent to Montclair State. Failure to initiate the process in the first semester will result in the loss of credit.

Dean's List

The Academic Dean's List, issued after the close of each semester by the academic deans, gives recognition to students with a 3.50 or higher semester grade point average (GPA). A minimum of 12 credits must be earned in courses that contribute to the GPA.

Final Degree/Certification Audit

It is the student's responsibility to complete the curriculum prescribed in the College catalog in effect, or as subsequently modified, when he/ she matriculates. For undergraduates, a minimum cumulative grade point average of 2.00 (C) and major grade point average of 2.00 based upon a possible 4.00 system is required. Inquiries pertaining to an individual's program of studies shall be referred to the appropriate academic or faculty advisor. It is the student's responsibility to meet all graduation requirements.

Students who are eligible for graduation must file an *Application for Final Degree/Certification Audit* in the Office of the Registrar according to the following schedule: **by October 1 for the following June; June 1 for the following January; March 1 for the following August graduation.**

The student will be mailed a copy of the final evaluation listing requirements that must be completed in order to meet the intended date of graduation/certification. Students who wish to confirm receipt of the *Application for Final Degree/Certification Audit* by the Office of the Registrar should consult the list posted outside the office during the month immediately following the filing deadline.

Baccalaureate degree candidates who have been evaluated for New Jersey Teaching Certificates must complete the *Application for Certification* and pay the required fees in the Office of the Registrar during the following periods: **March 15 to April 15 for June graduation; October 15 to November 15 for January graduation; July 1 to August 1 for August graduation.**

Effective October 15, 1985, the New Jersey State Board of Education requires candidates for *instructional* certificates to take sections of the National Teacher Examination and achieve a minimum score prior to certification. Information regarding which tests to register for and how to register is available in the Office of Teacher Education, Room 006, Chapin Hall.

Final Examinations

Final examinations and evaluations are generally of a comprehensive nature covering the semester's work, but the form, determined by the nature of the course subject matter, varies with individual professors and classes. A schedule of final examinations is found in the Schedule of Courses booklet each semester.

Final examinations are weighted in relation to other evaluations which are made throughout the semester and do not replace periodic tests and other means of measuring student progress.

Grades and Standards

There are seventeen grades used at Montclair State College:

A	4.0 Excellent	**C**	2.0 Fair	**P**	Pass
A-	3.7	**C-**	1.7	**IN**	Incomplete
B+	3.3	**D+**	1.3	**WD**	Withdrew
B	3.0 Good	**D**	1.0 Poor	**AU**	Audit
B-	2.7	**D-**	0.7	**NC**	No Credit
C+	2.3	**F**	0.0 Failure		

All Basic Skills courses, whether they carry credit toward graduation or not, contribute to the grade point average.

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal; or (3) withdrawal after the midpoint in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The grade "IN" is intended to indicate that the student has not completed the course and that a grade is being withheld until the work is performed and approved. Students must enter into a formal contract with the faculty prior to the end of the semester, using the form available in the Office of the Registrar. The "IN" if not replaced with a final grade by May 1st for Fall and Winter incompletes and December 1st for Spring and Summer, will become an "F." Exceptions can be granted only upon petition to the appropriate School Dean.

A change of grade request from other than an "IN" grade, must be processed by faculty and approved no later than the end of the next full semester following the semester in which the grade was earned.

For purposes of determining the grade point average (GPA), for graduation, academic honors, dean's list, academic probation, academic furlough, suspension and dismissal, and all other situations which require a specific GPA, Montclair State maintains GPA's to three decimal places. No additional rounding will occur.

Graduation Honors

Undergraduate students who have completed a minimum of 60 undergraduate credits at Montclair State College are recognized for academic honors. Grades of "A" through "D-" must be received for a minimum of 48 of these 60 credits.

Academic honors are awarded as follows:

Average of 3.450- 3.640 cum laude
Average of 3.650- 3.840 magna cum laude
Average of 3.850 - 4.00 summa cum laude

An honors diploma will be awarded. A period of 3-4 months should be allowed for verification of cumulative average, printing, and mailing. However, the honors notation will appear on the official transcript after graduation.

Independent Study

Montclair State College offers opportunities for students to undertake academic credit on an independent study basis. Students who wish to register for courses on an independent study basis must obtain an "Independent Study Application" form from the Office of the Registrar. This form must be completed in full and approved by the instructor and the department chairperson prior to registration.

One copy of this form is to be retained by the student. One copy is to be submitted to the department chairperson, one copy remains with the instructor and the original must be submitted at the time of registration, along with a registration form.

All courses which are approved to be taken on an independent study basis must also be listed on the registration form. The full course number is required.

Leave of Absence

Full-time undergraduate students in good academic standing may take a leave of absence of one or two semesters by arrangement through the Academic Advising and Tutorial Center located in Building E.

Students who take a leave are guaranteed readmission if they file with the Office of Admissions an application for readmission by August 1 for the fall semester and December 1 for the spring semester. Upon termination of the leave period, students are no longer guaranteed reinstatement and must follow normal readmission procedures if they wish to attempt to return to college.

Major Declaration

Undeclared majors should declare a major by the time they have earned 58 semester hours. Students are expected to complete the major for which they apply within the normal number of semester hours required for completion of the degree program. For most undergraduate degree programs, this is 128 semester hours, however, certain programs require more than 128 semester hours. Students may accrue more than the number of credits usually required for completion of the degree as a result of changing majors but will not be permitted to accrue additional credits for the purpose of establishing additional majors or minors. Students expecting to establish additional majors or minors beyond the normal number of credits required for completion of the degree are required to obtain permission from the Director of Academic Advising. Students may not declare additional majors or minors after they have applied for final evaluation for graduation.

Pass/Fail Grading

1. Available to Montclair State College Undergraduates Only. All Montclair State College undergraduates are eligible to select one course per semester for which they are registered for pass/fail credit, not to exceed 24 semester hours in the degree program.
2. Eligible Courses: Only those courses which are free electives in the students program. The purpose of this option is to encourage students to explore unfamiliar areas of study without concern for the effect on academic standing.
3. Courses offered on a pass/fail basis only will not preclude the student from also taking an additional course on a pass/fail option.
4. Grading: Students will receive either a grade of "P" (pass) or "F" (fail) for course work completed under the option. A grade of "P" does not affect the student's average; however, a grade of "F" will have the same effect as a traditional failure.
5. Students may elect to rescind the pass/fail application at any time prior to the mid point of the semester. Students should know that letter grades will not replace "P"s if changing majors, attending graduate school, for certification or other colleges requiring letter grades.

Procedure:
Any student electing the pass-fail option must complete a "PassFail Application" and return it to the Office of the Registrar prior to the end of the third week of classes for regularly scheduled courses or its equivalent for short term and summer courses.

Plagiarism

All papers, reports and research submitted by students shall be their own except as properly annotated. The copying or imitating of others' work is plagiarism. A student guilty of plagiarism may be subject to dismissal.

Registration

Registration for incoming students is accomplished through an on-line procedure during the summer prior to the start of classes. Registration appointment cards will be mailed to all returning students at their permanent address. These cards will have a personal registration appointment time indicated.

Further directions will be found in the Schedule of Courses booklet.

Repeated Courses

A student should repeat a failed course as soon as possible. A student must repeat a failure if the course is required for graduation. Courses must be repeated prior to graduation.

To repeat a course a student must register, make payment for that course and file a Repeat Course card with the Office of the Registrar. There is no special approval required to repeat a course in which a grade of "F" was received. No special permission is needed to repeat a "D" earned as of Spring, 1989. For purposes of this policy, "D" grades include grades of "D+, D, and D-". A course repeated at another institution does not remove a "D" or "F" at Montclair State College.

When a course has been repeated, both the original and subsequent courses are included on the permanent record, but the credit is counted only once. The grade received in the repeated course becomes the official final grade. The original grade becomes an "RD" or "RF" on the transcript and does not count in the student's grade point average. Courses in which the student received grades other than "D" or "F" cannot be repeated. Where course is no longer offered, the Dean, in consultation with the Department Chair, shall designate an appropriate replacement course.

Repeat Course forms are availaable in the Office of the Registrar, C-204.

Residence Requirements

A minimum of 32 credit hours of the total required for the baccalaurate degree must be completed at Montclair State College. The final 24 credit hours required for graduation must be taken at Montclair State College and cannot be acquired through transfer.

Any student who transfers from another institution with advanced standing in a major field of study is required to complete a minimum of twelve credit hours of upper level course work in the major at Montclair State College. Some curricula may require more than this minimum.

Retention Standards

All undergraduate students whose cumulative grade point average (GPA) is below 2.00 are automatically on probation. Full-time undergraduates are expected to earn an average of 12 semester hours per semester of attendance.

Students are subject to academic suspension or dismissal if the cumulative GPA is below minimum retention for the number of semester hours earned. Semester hours earned include all courses passed at Montclair and any credits earned through transfer, credit by examination or assessment. First semester freshmen and first semester transfers falling below retention are automatically given a semester of probation before furlough, suspension or dismissal.

	Total Semester Hours Earned		
	0-57	*58-89*	*90 plus*
Minimum Retention	1.60	1.80	2.00
Academic Furlough	1.40-1.59	1.60-1.79	1.80-1.99
Academic Suspension	1.00-1.39	1.20-1.59	1.40-1.79
Academic Dismissal	0-.99	0-1.19	0-1.39

Furlough

Academic furloughs are given to students whose cumulative GPA is below retention (not more than 0.20 below) and/or are not making satisfactory progress for the degree. When a student is on academic furlough, he or she may not take course work at Montclair State.

Students given an academic furlough are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the Academic furlough. Readmission is automatic.

A student who is readmitted from academic furlough is given two semesters to raise the cumulative GPA to retention level and make satisfactory progress towards the degree. If the student does not perform at a 2.00 level the first semester back or is not at retention level after two semesters, the student is given an academic dismissal.

Suspension

Academic suspensions are given when a student's cumulative GPA is below retention level and/or is not making satisfactory progress for the degree. When a student is on academic suspension, he or she may not take course work at Montclair State.

Students given an academic suspension are eligible to apply for readmission through the Office of Admissions for the semester beginning one calendar year following the academic suspension. Readmission is not automatic. It is based on the probability of success in the chosen major and upon the space available at the time.

Retention requirements after readmission from academic suspension are the same as those listed above for academic furlough.

Dismissal

Academic dismissals are given to students whose cumulative GPA is more than 0.60 below retention level or to students who have returned from furlough and suspension and did not achieve at a suitable level. A student placed on academic dismissal is not eligible to return to the College, however, may re-apply for admission after earning an associates level degree from an accredited two year college.

Standards for Formal Written Work

Most courses at Montclair State College require written assignments, because writing is one of the best ways to explore, refine, and demonstrate knowledge. The following statement describes the mental operations and the writing skills that the faculty expects in your *formal* written work. (You should assume that an assignment requires formal preparation unless your instructor states otherwise.) The Freshman Composition course provides a solid foundation in these abilities, but that is only the beginning. The written work that you do in all your courses will build on the foundation established in Freshman Composition, developing your ability to think and to communicate your thoughts in writing.

In the academic world, as in the world at large, readers will judge your written work primarily on the basis of its content; that is, on the quality of the information and opinions it contains. However, the careful organization and the clear, concise expression of that content are essential if your readers are to grasp your full meaning. The faculty will therefore evaluate the organization and expression of your written assignments along with the content. Grammar, mechanics, and appearance will also be considered, because problems in these areas can interfere with readers' comprehension of your work, or even prevent them from giving it their serious attention.

Individual departments and instructors may add their own requirements to this statement, and each instructor will decide how the various elements will influence grading in a particular course. However, in the course that you will take to satisfy your graduation requirement in writing, you will be given a grade of Incomplete and referred to the Writing Workshop if your writing has severe problems. This will apply regardless of the average grade of any other work done in that course.

If you have questions about this document, you may seek clarification from your instructors, from the English Department, or from the Writing Workshop staff. The Writing Workshop offers consultation and tutorial help to all students on a drop-in basis, 121 Richardson Hall, (201-893-7442). There is no charge for this service.

Writing and Thinking

You should be able to perform with college-level competence the mental operations on which written work depends. These include:

- Generalization: Finding the common element that relates particular examples or instances to each other; abstracting.
- Inference: Drawing out meanings that are implied but not stated explicitly; reading between the lines.
- Analysis: Examining parts of the whole, such as causes, effects, and processes.
- Synthesis: Forming ideas into new relationships; creating.
- Evaluation: Making judgments according to criteria.

You should be able to apply to new situations the knowledge you have gained from your classes, your reading, and your investigations.

You should be able to draw your own conclusions, rather than simply to restate or summarize the ideas of others.

You should be able to state a thesis clearly and support it with reasoning and evidence.

You should be able to organize the parts of a paper in an orderly sequence, governed by a controlling purpose that is clear to the reader. Paragraphs and subsections should also have their own internal order.

You should be able to adapt what you write to the needs and expectations of your intended audience, whether it is your peers, your teacher, other scholars in a discipline, or the general public.

The Writing Process

Successful writing is seldom merely the recording of the writer's first thoughts. More often it is the result of a process involving several stages. You should know how to use strategies that will help you to:

- Choose and limit a topic
- Collect information
- Develop ideas
- Produce rough and polished drafts
- Revise and edit
- Proofread

Library Research and Documentation

You should be able to find and use materials published in various forms, including books, periodicals, newspapers, government documents, abstracts, microforms and recordings.

You should be able to summarize or paraphrase the written work of others. Paraphrased material must be completely restated in your own words, and should blend smoothly into your style.

You should be able to identify your source material according to the method your instructor requires. Data or distinctive ideas taken from sources must be identified by a footnote or some other form of citation, *even if those ideas are not quoted directly*. Direct quotations must be identified by a citation as well as by quotation marks or block indentation.

Failure to treat source material properly may be construed as plagiarism, a serious academic offense. (See Plagiarism under Academic Policies and Procedures.)

Standard English, Grammar, Style

Your papers should be written in formal, standard English. They should be free of nonstandard constructions (such as double negatives) and of informal usage (such as "The experiment went O.K.").

Your sentence structure should be free of major grammatical problems, such as sentence fragments, subject-verb disagreement, inconsistent verb tenses, unclear pronoun reference, and misplaced modifiers.

Your sentences should be clear and concise, showing capable use of the tools necessary to a mature writing style, such as coordination, subordination, parallelism, and transitional devices.

Your choice of words should be precise and appropriate to your subject. You may sometimes find it essential to use technical terms, but you should always avoid unnecessary jargon.

Mechanics and Appearance

Your papers should contain no errors in spelling, punctuation, capitalization, or typing.

You should show careful attention to matters of appearance, including legibility, neat corrections, and suitable presentation.

The use of a word processor is encouraged, provided that the printout is easily readable.

If your instructor does not specify how you are to present your paper you may follow these recommendations:

Use a cover sheet that includes:

- your name
- the title of the paper
- the title and section number of the course
- the name of the instructor
- the date

Make margins at least one inch all round.

Number the pages.

If possible, type your formal papers.

- Use standard typing paper: 8½ x 11 inch, white, medium weight.
- Use dark typewriter ribbon. Keep the keys clean.
- Double space.

If you cannot type your paper or have it typed, make sure that your writing or printing is legible.

Make corrections neatly. Use an eraser, correction tape, or correction fluid. If you discover an error at the last minute, make a neat correction right on the paper.

Student Responsibility

The College expects students to assume responsibility for knowing and meeting the various regulations and procedures set forth in the College catalogs and in the schedule of courses booklet published each semester. The College reserves the right to terminate the enrollment of any student whose conduct, class attendance, academic record or financial obligation should prove unsatisfactory.

Student Rights

The Family Education Rights and Privacy Act of 1974 (Buckley Amendment) permits the College to release directory information about a student unless the student specifically requests that this information be withheld. Students who do not wish directory information to be released should notify the Office of the Registrar within the first two weeks of each semester.

Transcripts

To obtain a transcript, students must complete a transcript request form, available through the Office of the Registrar. A fee of $2.00 per copy is payable in advance to Montclair State College. Please allow 10 working days for processing of all transcript requests. Additional time should be allowed for transcripts processed at the conclusion of each College session.

Transcripts will not be released for students who have an obligation (i.e., financial, library, parking, loan, etc.) to the College.

Transfer Credit

MSC undergraduate students who wish to take courses at another institution and transfer the credits to MSC must complete the form "Request for Work at Another Institution" available in the Office of the Registrar prior to enrollment in the course(s) they wish to transfer. All accepted credits will be listed, without grades, on the student's permanent record. Grades earned at other institutions are not included in the cumulative grade point average. However, transfer credit hours are used in determining the student's class level.

All specific requirements for the degree must be completed even though this may involve more than that expected by the student at the time of transfer. Courses with grades of "D+, D, D-" or "F" are not accepted for transfer credits.

Transfer Credit

Full-Faith-and-Credit

The New Jersey State Board of Education's full-faith-and-credit policy applies to graduates of New Jersey community colleges seeking admission to the New Jersey state colleges (Glassboro, Jersey City, Kean, Montclair, Ramapo, Stockton, Trenton, and William Paterson).

The policy guarantees graduates of approved transfer programs in the New Jersey community colleges and Thomas A. Edison State College admission to a New Jersey state college although it may not be the college of first choice. The provisions in the full-faith-and-credit policy pertaining to acceptance of general education credits and the number of additional credits required to complete the baccalaureate degree apply to students in approved transfer programs, Associate in Arts or Associate in Science, who are continuing in the same major at the four-year institution. Students graduating from a community college with an Associate in Applied Science degree may also be guaranteed credit for particular courses in cases where an articulation agreement has been established between Montclair State College and the community college.

Transfer Credit

Non-Accredited Institutions

To receive evaluated credit from an institution licensed by a state to grant degrees but not regionally accredited:

1. in the first semester, a full-time student shall earn a minimum of 12 semester hours with a minimum grade point average of 2.00.
2. a part-time student shall earn a minimum of 12 semester hours in the first 14-15 semester hours attempted and with a minimum cumulative grade point average of 2.00.

Undergraduates in Graduate Courses

MSC seniors within 16 semester hours of completing the baccalaureate degree requirements, who possess at least a 2.67 grade point average and have taken all required prerequisites, may apply to take up to 6 hours of 500 level courses for either undergraduate *or* graduate credit, if prior permission is granted. A graduate course taken for undergraduate credit *cannot* later be included in a graduate degree program. If courses are taken for graduate credit, graduate tuition and fees will be charged. Appropriate forms are available at the Office of Graduate Studies.

Admission of an undergraduate to a graduate (500 level) course does not imply future acceptance into any graduate program. That can only be done through the normal admission process. Those planning to matriculate in graduate programs at the College should refer to the Graduate Catalog for specific admission requirements.

Veterans

The Financial Aid Office provides information and advice to students regarding federal and state Veterans' benefit programs. All United States veterans who enroll at the College should contact the office as early as possible in their academic program. Benefits are not available for audited courses. Any change in student status must be reported to the Financial Aid Office in writing.

All U.S. veterans who completed a minimum of six months active duty are eligible to receive three elective credits, one of which fulfills the one semester physical education requirement Applications to receive these credits are available from the Financial Aid Office.

All Veterans must submit a copy of their discharge papers to the Office of Veterans Affairs, College Hall Room 317 A. Telephone: (201-893-5180, 4461).

Waivers and Credit Adjustments for Freshman English

The following policies apply to students entering as freshmen or as transfer students beginning in Fall 1988.

To obtain waivers or credit adjustments for Basic Composition, Freshman Composition, and Introduction to Literature, students must see the Freshman English Coordinator.

Waivers of Freshman Composition, with or without credit, must be completed before the end of the sophomore year for students who enter the college as freshmen. Transfer students must complete these waivers by the end of their first semester of attendance.

I. Waiver of Requirement *without* Credit

A. For Freshman Composition (satisfies the Communication Requirement in Writing):
Submit an acceptable research paper demonstrating college-level skills in both writing and research. (Students must first qualify to take Freshman Composition by achieving the appropriate score on the New Jersey College Basic Skills Placement Test.)

B. For Introduction to Literature (satisfies the Communication Requirement in Reading):
Score 3 or higher on the ETS Advanced Placement Examination in English Literature and Composition (not Language and Composition). The Communication Requirement in Reading is waived, and the student has the option of taking Introduction to Literature *or* another course in English or American literature.

II. Waiver of Requirement *with* Credit

A. For Freshman Composition: Waiver of the Communication Requirement in Writing and award of 3 credits.

1. Score 3 or higher on the ETS Advanced Placement Examination in English Literature and Composition *or* English Language and Composition. Submit an acceptable research paper demonstrating college-level skills in both writing and research.
2. Score 530 or higher on the ETS College Level Examination Program (CLEP) General Examination in English with essay. Submit an acceptable research paper demonstrating college-level skills in both writing and research. (Students must first qualify to take Freshman Composition by achieving the appropriate score on the New Jersey College Basic Skills Placement Test.)

B. For Introduction to Literature: Waiver of the Communication Requirement in Reading and award of 3 credits. Score at or above the 50th percentile on the ETS College Level Equivalency Program (CLEP) Examination in Analysis and Interpretation of Literature.

Withdrawal from Courses

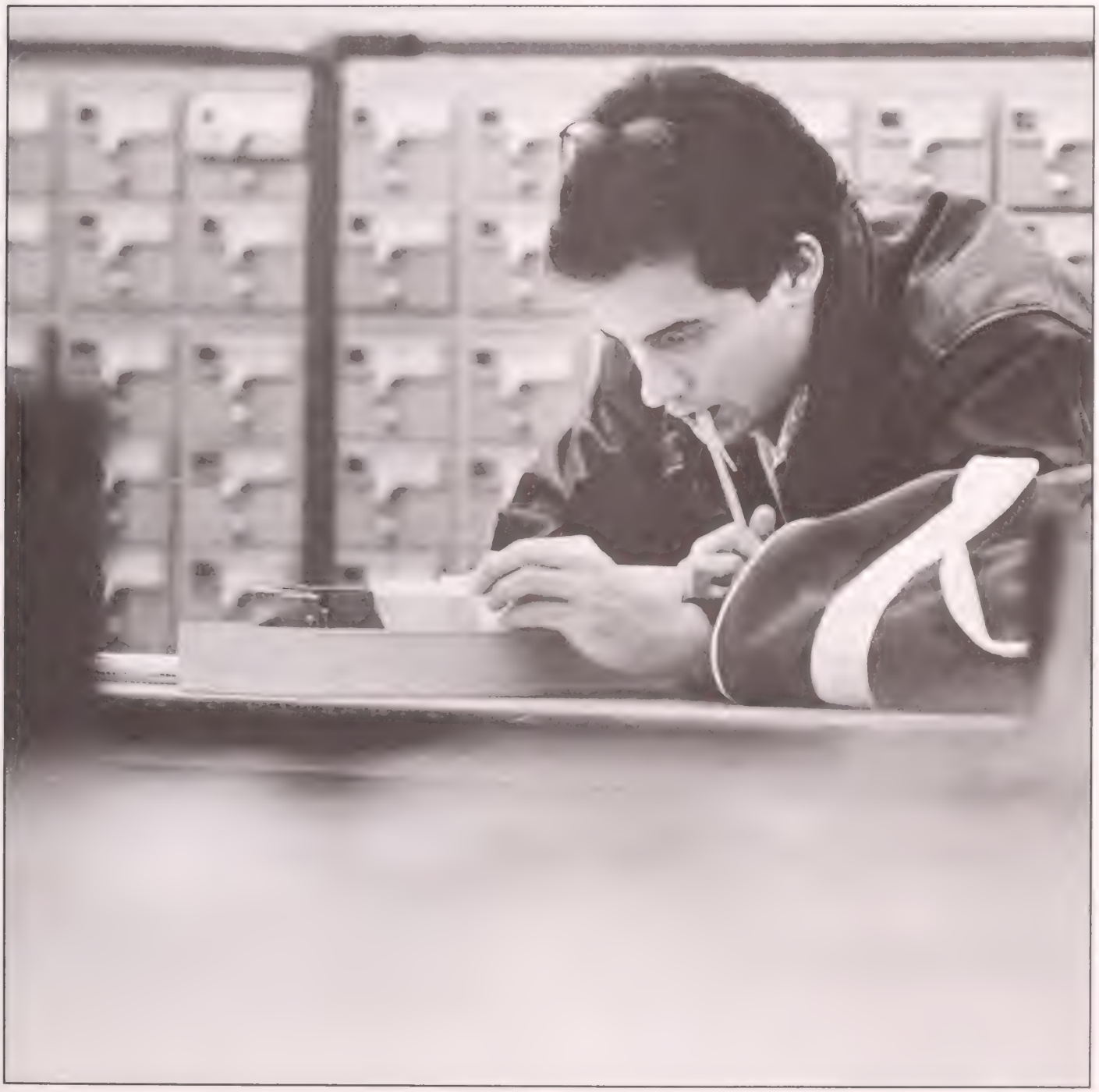
Students who wish to withdraw from courses must complete the withdrawal form or send a written notice to the Office of the Registrar. (Notification to the instructor or a "Stop Payment" of a check does not constitute an official withdrawal from the College.) Upon receipt of the withdrawal notice, student will be given or sent acknowledgement. Any student who fails to receive such acknowledgement within two weeks should immediately notify the Office of the Registrar. Withdrawals are computed from the date of receipt of the written notice or from the date of the U.S. postmark for those received through the U.S. mail. Students who do not submit a written notice will receive the mark of "F" in those courses which they cease to attend. See the current Schedule of Courses booklet for deadline dates.

Withdrawal from College

A full-time undergraduate student wishing to withdraw from the College must complete an official withdrawal form obtained in the Academic Advising Center. If the student is a minor, the signature of a parent or guardian is required on the withdrawal form. Strict adherence to the withdrawal procedure is necessary for possible readmission.

Special Withdrawal Procedure

Students who find it necessary to withdraw after the midpoint of the semester for medical reasons or personal emergency must petition the Dean of Students in writing, and provide supporting documentation.



Requirements for the Undergraduate Degree

The academic program of this College has been designed to provide each student with an in-depth experience in a major program, a sequence of courses to develop basic communication skills, and a series of general education courses to expose the student to the breadth and methods in the various fields of human knowledge. The structure of the general education program is designed to provide the best comprehensive liberal arts education for all students.

The following pages provide a description of the degree program requirements and an outline of the general education program required of all students.

These requirements are basic and should be a major part of the first two years of a student's undergraduate program. Departmental curriculum guides provided for your major course sequence should also be consulted.

In addition to the requirements stated above, the Board of Higher Education has mandated that a series of Basic Skills Tests be administered to all incoming students. If the student is found to have deficiencies in the areas of reading, writing, or basic mathematical skills, remedial courses are required and the student is expected to meet minimum standards during the first year of attendance at the College.

General Education Requirement ..... 34-58 Semester Hours

B.A./B.S ..... 58 Semester Hours
B.F.A./B. Mus ..... 34 Semester Hours

Major Field ..... 33-82 Semester Hours

Graduation Requirement in Writing

Electives ..... 12-37 Semester Hours

Minorities Culture Requirement (one course)
Minimum number of semester hours required for graduation ..... 128 Semester Hours

Teacher certification requirements involve use of 27-28 semester hours of the electives. Some teacher certification and other major programs require completion of more than 128 semester hours prior to graduation. For details on specific programs, consult the academic programs section of this catalog and the program worksheets obtained from the College academic advisor or faculty advisor. General information on teacher certification may be found in this catalog, listed under Other Academic Programs, Teacher Education in the Table of Contents.

General Education Requirement (GER)

The General Education Requirement at Montclair State College is among the most comprehensive in area college and universities. On completion of the requirement, one will enjoy the benefits of the best of the traditional liberal arts curriculum: facility in a foreign language, a sense of history, a perspective on social sciences, a familiarity with the humanities and art, and an understanding of mathematical and scientific principles and some of their contemporary applications. Beyond these traditional areas, one will have had the opportunity to study a major non-Western culture and several non-Western literary masterpieces. At least one important contemporary issue will have been examined in depth, and an introduction to computers will have been provided.

The courses taken to fulfill this requirement are designed to impart not merely information, but techniques of problem solving and analytical thinking. Primary readings in the work of classical thinkers and substantial writing assignments will be featured in nearly every course. Whenever possible, professors will show how several academic disciplines bear on a single problem or topic.

The General Education Requirement dedicates some of the major resources of the College to the benefit of introductory students. Combining the strength of the liberal arts curriculum with a contemporary approach to social and technological change, it supplies a valuable balance to any major program.

The following General Education Requirements apply to full-time freshman and part-time students who began their studies at Montclair State College in Summer/Fall, 1983 or thereafter and transfer students entering the College in Fall 1985. These requirements are subject to change. Periodic visits to your faculty advisor or College academic advisor are strongly recommended to avoid difficulties in meeting graduation requirements.

Bachelor of Arts and Bachelor of Science

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

See General Education Requirement, Appendix of Courses, in this section of the catalog for specific courses that fulfill requirements within the GER categories listed below.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for these purposes, except that courses in a student's major department may not be used to satisfy the "General Education Electives" requirement described in section J below.

A. Communication — 9 Semester Hours

Writing

A course in composition which will help develop the ability to express oneself clearly, to convey information fully and concisely, to persuade others effectively in standard written English, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading

A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course is designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening

A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues — 3 Semester Hours

An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts: Art Appreciation — 3 Semester Hours

A course in the inherent styles and qualities of a particular art form, designed to provide familiarity with important masterpieces in an historical and stylistic context, an understanding of the processes involved in creating art, and an ability to recognize and appreciate excellence.

D. Foreign Language — 6 Semester Hours

A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.

Note: FOREIGN LANGUAGE PLACEMENT
As part of the General Education Requirement, all students at Montclair State College must take six credits of a foreign language. All entering students who wish to continue studying a foreign language studied in high school will take a placement test in that language. They will be placed according to the results of the test with the following restrictions:

1. *students who have had two years of a foreign language in high school may only use courses number 102, 103, 104, 112 or higher to fulfill the GER foreign language requirement if they continue a language they studied in high school;*
2. *students who have had three or more years of a foreign language in high school may only use courses numbered 103, 104, 121 or higher to fulfill the GER foreign language requirement if they continue a language they studied in high school;*
3. *any exception to the foregoing must be approved by the chair of the appropriate department.*

A student who wishes to begin a NEW language and has had NO EXPOSURE to that language, will be exempt from the placement test. Six consecutive hours in the new language will be required.
A student who places above the intermediate level in the placement test may fulfill the GER foreign language requirement in one of two ways:

1. *by taking a ONE semester course above the intermediate level in the language tested;*
2. *by taking the ONE semester course STRUCTURE OF AMERICAN ENGLISH offered by the Linguistics Department.*

E. Humanities — 6 Semester Hours

1. World Literature or General Humanities: 3 Semester Hours

World Literature
A course in major works of world literature from Western and non-Western literary traditions. Taking the course will provide you with an expanded awareness of national and international cultural concerns, as well as a heightened sensitivity to literature.

General Humanities
An interdisciplinary course in General Humanities with emphasis on the great questions which have concerned and inspired artists and thinkers through the ages. The course will provide you with greater knowledge of the range of humanistic achievement in several areas of creative endeavor, and a deeper understanding of the values of different civilizations.

2. Philosophy/Religion: 3 Semester Hours
   A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics — 5 Semester Hours

1. Mathematics: 3 Semester Hours
   A course in mathematics as a tool of scientific investigation and as a significant part of our heritage, stressing an appreciation of mathematics as a tool for problem solving and analysis, and a greater ability to think precisely and logically.

2. Computer Science: 2 Semester Hours
   A course illustrating the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy.

G. Natural/Physical Science — 7 Semester Hours

1. Laboratory Science: 4 Semester Hours
2. Non-Laboratory Science: 3 Semester Hours
   Two courses in natural/physical science, at least one with a laboratory component. The courses are designed to provide the ability to appreciate and utilize the scientific method. Selected findings in a particular field, the methods employed to obtain them, their historical and contemporary significance, and some of the applications will be emphasized in each course.

H. Physical Education — 1 Semester Hour

A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science — 12 Semester Hours

1. American or European History: 3 Semester Hours
   A course in American or in European History. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide the perspectives on the influence of the past in shaping contemporary conditions.
2. Non-Western Cultural Perspectives: 3 Semester Hours
   A course in the culture or civilization of indigenous peoples in Africa, Asia. or the Americas. Completing this requirement will provide important insights into the development of cultures not influenced in their formative stages by Western civilization.
3. Social Science (other than History): 6 Semester Hours
   Each student will take one survey and one topic course.
   a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.
   b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.

Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance in understanding ourselves, our society, and the world.

J. General Education Electives — 6 Semester Hours

1. GER approved courses (other than Physical Education)
2. General introductory courses at the 100-level or 200-level in any department in the schools of Fine and Performing Arts, Humanities and Social Sciences, and Mathematical and Natural Sciences.
3. Courses in the areas of Creative Expression and/or Personal/ Professional Issues

Creative Expression
An elective course in the creative process in a particular art form. A creative expression course will afford the opportunity to be personally involved in a creative activity and gain insights into both the technical difficulties and the creative choices which artists face. One should develop not only a lifelong appreciation of the arts, but also remain an active participant.

Individual and Professional Issues
An elective course in personal or professional development. Taking one of these courses should provide a better understanding of oneself, teach one how to interact with others more effectively, or gain a more developed perspective on career choices.

Note: General Education Electives must be taken outside the student's major.

Bachelor of Fine Arts and Bachelor of Music

It is recommended that, whenever possible, a student complete the General Education Requirement during the first two years of study.

See General Education Requirement, Appendix of Courses, in this section of the catalog for specific courses that fulfill requirements within the GER categories listed below.

The same course may be used to satisfy both GER and major, certification, or minorities culture requirements, if it has been approved for these purposes.

A. Communication — 9 Semester Hours

Writing

A course in composition which will help develop the ability to express oneself clearly, to convey information fully and concisely, to persuade others effectively in standard written English, and to write college-level papers, using standard library techniques and appropriate documentation and style.

Reading

A course in the reading of imaginative literature, stressing comprehension, interpretation, analysis, and appreciation; the course is designed to impart skills in critical reading of literature, and a greater understanding of how literature provides insight into human values, self-understanding, and social awareness.

Speaking/Listening

A course in the comprehension and expression of the spoken American-English language. As a result of this course, students will understand oral communication as a process; they will speak more effectively and persuasively, will be more creative, active, and critical listeners.

B. Contemporary Issues — 3 Semester Hours

An interdisciplinary course on a major contemporary issue, with a problem-to-solution emphasis. The outcome of the course should be a recognition of the complex nature of such problems (including their moral and ethical implications), and an awareness of their possible realistic solutions.

C. Fine and Performing Arts: Art Appreciation — (Not Applicable)

D. Foreign Language — 6 Semester Hours

A two-course sequence in a foreign language, with emphasis on reading, speaking, and writing skills; increased cultural understanding. The skills, valuable in themselves, will enhance an understanding of the ways in which language reflects cultural values and traditions.

Note: FOREIGN LANGUAGE PLACEMENT
As part of the General Education Requirement, all students at Montclair State College must take six credits of a foreign language. All entering students who wish to continue studying a foreign language studied in high school will take a placement test in that language. They will be placed according to the results of the test with the following restrictions:

1. *students who have had two years of a foreign language in high school may only use courses number 102, 103, 104, 112 or higher to fulfill the GER foreign language requirement if they continue a language they studied in high school;*
2. *students who have had three or more years of a foreign language in high school may only use courses numbered 103, 104, 121 or higher to fulfill the GER foreign language requirement if they continue a language they studied in high school;*
3. *any exception to the foregoing must be approved by the chair of the appropriate department.*

A student who wishes to begin a NEW language and has had NO EXPOSURE to that language, will be exempt from the placement test. Six consecutive hours in the new language will be required.

A student who places above the intermediate level in the placement test may fulfill the GER foreign language requirement in one of two ways:

1. *by taking a ONE semester course above the intermediate level in the language tested;*
2. *by taking the ONE semester course STRUCTURE OF AMERICAN ENGLISH offered by the Linguistics Department.*

E. Humanities 3 Semester Hours

Philosophy/Religion

A course in philosophy or in religion which emphasizes a critical and creative response to specifically philosophical or religious ideas, arguments, and perspectives. The course will introduce great philosophical or religious thinkers and works, and will afford a broader perspective on the human condition.

F. Mathematics 2 Semester Hours

Computer Science

A course in the use of the computer as an indispensable problem-solving tool in modern society, stressing the development of computer literacy i.e., the ability to perform basic tasks in a standard computer language.

G. Natural/Physical Science 4 Semester Hours

Laboratory Science

A course in natural/physical science with a laboratory component. The course is designed to provide the ability to appreciate and utilize the scientific method. Selected findings in a particular field, the methods employed to obtain them, their historical and contemporary significance, and some of the applications will be emphasized in the course.

H. Physical Education 1 Semester Hour

A course in a particular sport or physical activity designed to improve skills in that activity, and to impart a better understanding of how regular exercise improves the quality of life.

I. Social Science 6 Semester Hours

1. American or European History: 3 Semester Hours

A course in American or in European History. The course will help students understand long-range historical developments in either the United States or Europe and, in a broader sense, will provide the perspectives on the influence of the past in shaping contemporary conditions.

2. Social Science (other than History): 3 Semester Hours

A course in social sciences other than history.

a. A social science survey course will introduce the assumptions, principles, and methodologies of a particular social science discipline.
b. A social science topical course will focus on a particular theme, problem, or issue in the social sciences.

Students who complete this requirement will have a better grasp of the analytical techniques and methods of inquiry in the social and behavioral sciences, and of their importance in understanding ourselves, our society, and the world.

J. General Education Electives (Not Applicable)

Major Field

Since one of the main purposes of an arts and science program is to give the student a broad general education, requirements for an arts and science major are generally limited to 33-82 semester hours. Requirements for major programs vary; a number of these major programs have "tracks" or concentrations. For details on specific programs, consult the academic programs section of this catalog and the program work sheets prepared by the College academic advisor or faculty advisor.

Free Electives

Students may fulfill their remaining credits for a minimum of 128 semester hour degree requirements through the selection of any other

Multicultural Awareness Requirement

The purpose of the Multicultural Awareness Requirement is to ensure that all graduates are acquainted with the life, history, and contributions of Africans, African-Americans, Asian/Pacific Islanders, Latinos, Women and Native Americans. With the completion of this requirement, all graduates will have a fuller appreciation of our nation's heritage and future directions.

The following is a listing of the courses which meet this requirement. Certain of the courses listed below may simultaneously be used to meet the General Education Requirements and/or the Human and Intercultural Relations Requirement for Teacher Education, *if they are included on the approved list of these courses.*

Anthropology

ANTH	100	Cultural Anthropology
ANTH	200	Urban Anthropology
ANTH	206	Human Variation
ANTH	301	Peoples of Africa
ANTH	302	Native Latin Americans
ANTH	305	Native North Americans
ANTH	307	Ethnology of Southeast Asia and Oceania
ANTH	311	Anthropology of American Subcultures
ANTH	415	Women in Traditional Society

Broadcasting, Speech Communication, Dance and Theatre

STDN	345	Dance Techniques: Ethnic

Classics

GNHU	186	Myths and Images of Women in French Literature
GNHU	381	Africa in Classical Antiquity
GNHU	383	Women in Antiquity
GNHU	399	Development of Black Thought

Counseling, Human Development and Educational Leadership

COUN	481	The Legal Rights of Women

Curriculum and Teaching

CURR	412	Field Work in Urban Education
CURR	423	Teaching in Urban Schools

Economics and Finance

ECON	215	The Economics of Social Problems
ECON	405	Economic Development of Sub-Saharan Africa

Educational Foundations

EDFD	264	Sexism in American Education
EDFD	445	Puerto Rican Children in Mainland Schools

English

ENGL	238	Afro-American Writers
ENGL	294	Women Poets
ENLT	366	African Myth and Literature

Environmental, Urban and Geographic Studies

EUGS	206	Introduction to American Urban Studies
EUGS	301	Urban Field Studies
EUGS	308	Land and Life in Latin America
EUGS	313	Urban Geography
GELA	100	The Many Worlds of Latin America: Interdisciplinary Perspectives

Fine Arts

ARHS	220	Art in Non-Western Societies
ARHS	275	Afro-American Art
ARHS	458	Traditional Arts of Sub-Saharan Africa

History

HIST	108	Introduction to African Civilization
HIST	114	Early Latin American Civilization
HIST	115	History of Puerto Rico
HIST	131	Introduction to Indian Civilization
HIST	132	Introduction to Chinese Civilization
HIST	133	Modern Chinese Civilization
HIST	205	Minorities in American History
HIST	215	Women in American History
HIST	217	History of Black Americans

Home Economics

HECO	205	Women in Contemporary Society
HEFM	445	The Inner City Family

Linguistics

LNGN	255	Women, Men, and Language

Management

MGMT	332	Minorities in Business

Music

MUGN	150	Influence of Afro-American Culture on Music
MUGN	209	Introduction to Jazz
MUGN	309	The Art of Jazz

Philosophy and Religion

PHIL	237	Oriental Philosophy
RELG	210	Religions of the North American Indians
RELG	212	Oriental Religions
RELG	267	Women in Religion

Political Science

POLS	204	Government and Politics of Africa
POLS	206	Government and Politics of China and Japan
POLS	214	Women in Politics
POLS	308	Ethnic Politics in America
POLS	312	Black Politics in America
POLS	404	Government and Politics of India and South Asia
POLS	405	Government and Politics of Latin America

Psychology

PSYC	102	Women's Worlds
PSYC	231	Psychology of Aggression
PSYC	246	Psychology of the Black Experience
PSYC	265	Psychology of Women
PSYC	345	Mental Health Issues of Hispanic Americans

Reading and Educational Media

MEDI	355	Media in Intercultural Communication

Sociology

SOCI	202	Racial and Ethnic Relations
SOCI	205	Black Family
SOCI	311	Urban Sociology
SOCI	315	Social Stratification
SOCI	430	Sociology of Gender

Spanish and Italian

SPAN	270	Spanish-American Cultural History*
SPAN	280	Cuban Cultural History*
SPAN	360	Hispanic Community Program*
SPAN	472	Puerto Rican Literature and Thought*
SPAN	475	Seminar on Hispanic Culture in the U.S.*

Women's Studies

WMST	102	Women's Worlds

*Taught in Spanish

College Writing Requirement

Written work is an important part of the College curriculum because writing offers students the opportunity to think deeply and searchingly about their subjects and because skill in written expression is crucial to the welfare of both individuals and society. The College policy regarding written work includes the following requirements and provisions:

1. The document "Standards for Formal Written Work," which is published in this catalog and available from all academic departments, outlines in a general way the College's expectations concerning the content, organization, and format of written assignments. These provisions may be supplemented by departmental writing policy statements or by those of individual instructors.
2. As part of the General Education Requirement, each student must satisfy the communication requirement in writing, usually by taking Freshman Composition.
3. Writing is an important part of course requirements throughout the College (minimum: 1,500 to 2,000 words per course). This work may take such forms as essay examinations, research papers, laboratory reports, critical essays, and so forth.
4. All students must satisfy a graduation requirement in writing. Each department must evaluate the writing ability of its majors by means of a required course (or choice of courses) with substantial writing assignments. Normally this course should be taken in the junior year. Students with serious writing problems will be referred to the Writing Workshop and may not graduate until those problems have been eliminated. Students should consult their College academic advisor or major department chairperson regarding this course and other aspects of the department's writing policy. See list below.
5. The Writing Workshop (Richardson Hall, room 121) offers consultation and tutorial help to all students with writing problems. There is no charge for this service.

Courses Satisfying the Graduation Requirement in Writing

Accounting, Law and Taxation
FINQ 463 Administrative Research Methodology and Analysis

Anthropology
ANTH 203 Anthropological Linguistics

Biology
BIOL 414 Genetics

Broadcasting, Speech Communication, Dance and Theatre
Broadcasting
STBD 140 Writing for Broadcasting Media
B.F.A. Dance
STDN 315 Dance History: Primitive to 1850
STDN 316 Dance History: 1850 to Present
B.F.A. Acting/Directing, Design/Production Theatre; B.A. Theatre Teacher Certification
STTH 208 Play Script Interpretation
STTH 210 Theatre History: Classical to Elizabethan
STTH 211 Theatre History: Restoration to Modern
Communication Studies
STSP 374 Group Processes
STSP 388 Seminar in Public Relations

Business Education and Office Systems Administration
Accounting and General Business Education
Comprehensive Business Education
Secretarial and General Business Education
Office Systems Administration
BEOS 320 Administrative Business Communications
Distributive Education and General Business Education
Retail Merchandising and Management
DIST 307 Retail Store Merchandising and Management

Chemistry and Biochemistry
CHEM 343 Experimental Physical Chemistry
CHEM 495 The Chemical Literature

Classics
GNHU 281 Greek Civilization

Latin
LATN 201 Latin Literature of the Republic
LATN 202 Latin Literature of the Golden Age
LATN 203 Latin Literature of the Silver Age
LATN 204 Latin Literature of the Middle Ages

Communication Sciences and Disorders
CS&D 201 Perspectives on Communication

Economics and Finance
BEOS 320 Administrative Business Communications

English
ENGL 226 Literature of the American Renaissance
ENGL 234 American Drama
ENGL 238 Afro-American Writers
ENGL 240 English Literature I: Beginnings to 1660
ENGL 241 English Literature II: 1660 to Present
ENGL 247 The Augustan Age
ENGL 248 From Sensibility to Romanticism
ENGL 254 English Drama: Beginnings to 1642
ENGL 256 English Novel to 1900
ENGL 324 American Poetry to 1940
ENGL 325 American Poetry: World War II to Present
ENGL 326 Early American Literature
ENGL 336 American Literary Realism
ENGL 337 Modern American Fiction
ENGL 338 Contemporary American Fiction
ENGL 343 Milton
ENGL 344 Chaucer
ENGL 345 Middle English Literature
ENGL 346 19th Century English Romantic Literature
ENGL 347 Victorian Prose and Poetry
ENGL 348 Renaissance Literature
ENGL 353 Shakespeare: Comedies-Histories
ENGL 354 Shakespeare: Tragedies-Romances
ENGL 401 Old English Language and Literature
ENGL 444 17th Century English Poetry
ENGL 446 Irish Renaissance Period Literature
ENGL 455 Restoration and 18th Century Drama
ENGL 456 20th Century English Novel

Environmental, Urban and Geographic Studies
EUGS 309 Research Methods
EUGS 310 Quantitative Methods in Geography and Urban Studies

Fine Arts
ARHS 105 Art in Western Civilization: Ancient and Medieval
ARHS 106 Art in Western Civilization: Renaissance to Modern

French
FREN 350 Translation I
FREN 351 Translation II
FREN 452 Translation III

General Humanities
GNHU 201 General Humanities I (to 1400)
GNHU 202 General Humanities II (from 1400)

German and Russian
GERM 352 German Civilization II

Health Professions

Health Education

HLTH 315 Community Health
HLTH 330 Foundations of Health Education

Allied Health Services

HLTH 315 Community Health
HLTH 455 Core Concepts in the Delivery of Health Care

Physical Education and Health (Dual Certification)

HLTH 315 Community Health

History

HIST 100 The Study of History

Home Economics

HEMG 270 Individual Management: Theories and Strategies

Linguistics

LNGN 300 Syntax and Semantics I
LNGN 330 Phonetics and Phonology

Management

FINQ 463 Administrative Research Methodology and Analysis
MGMT 316 Human Resource Management

Marketing

MKTG 442 Marketing Research

Mathematics and Computer Science

Mathematics

MATH 335 Elements of Linear Algebra

Computer Science

COMP 287 Data Structures and Algorithms

Music

MUHS 307 Music History I

Philosophy and Religion

Philosophy

PHIL 331 History of Philosophy: Ancient Philosophy
PHIL 333 History of Philosophy: Modern Philosophy

Religious Studies

RELG 401 Philosophical Backgrounds of Western Religion I
RELG 403 Philosophical Backgrounds of Western Religion II

Physical Education, Recreation and Leisure Studies

Physical Education

PEMJ 100 Orientation to the Physical Education Profession
PEMJ 352 Development and Philosophy of Physical Education

Recreation and Leisure Studies

PERL 124 Introduction to Recreation and Leisure Services
PERL 322 History and Philosophy of Leisure, Play and Recreation

Physics and Geoscience

Geoscience

GEOS 434 Stratigraphy
GEOS 444 Petrology
GEOS 457 Meteorology

Physics

PHYS 280 Astronomy
PHYS 310 Advanced Mechanics
PHYS 350 Optics
PHYS 462 Nuclear Physics

Political Science

POLS 201 Comparative Politics

Psychology

PSYC 301 Experimental Psychology

Community Psychology

PCOM 387 Methods in Evaluation Research

Sociology

Current Majors:

SOCI 300 Externship in Sociology
SOCI 410 Social Action Practicum

Beginning with Fall 1985 Freshmen and Fall 1986 Transfer Student

SOCI 201 Foundations of Sociological Inquiry

Spanish and Italian

Spanish

SPAN 142 Spanish Grammar and Composition II
SPAN 350 Translating I
SPAN 351 Translating II
SPAN 352 Practicum in Translating Italian

Italian

ITAL 142 Grammar and Composition II

Technology

Non-Teacher Education

INDS 461 Management and Production

Teacher Education

ISED 362 Principles and Methods of Teaching Industrial Education

Basic Skills Requirement

1. All students must demonstrate proficiencies in writing, reading, computation, elementary algebra, and speech which are compatible with the successful performance of college level work. The MSC Basic Skills Requirement provides for the demonstration of such proficiencies through a program of skills assessment and academic development.

2. The New Jersey College Basic Skills Placement Test (NJCBSPT) is administered prior to the beginning of the fall and spring semesters. All students accepted to Montclair State will be assigned a test date, and registration will not be completed until the Basic Skills test scores are in. That is, no entering students may expect to receive a first semester class schedule until he or she has taken the NJCBSPT or had the NJCBSPT scores transferred to the MSC Basic Skills Testing Office from a college previously attended. Transfer students may be required to present verification of upper class standing to the Basic Skills Testing Office prior to receiving a class schedule.

3. The Basic Skills requirement in reading, writing, computation and elementary algebra may be fulfilled by achieving satisfactory scores on the appropriate sections of the NJCBSPT.

4. Students receiving low scores on the various sections of the NJCBSPT will have credits added to the number of semester hours required to graduate. Developmental courses in reading, writing and mathematics are required for students receiving unsatisfactory scores on one or more sections of the NJCBSPT.

5. Students are expected to take required developmental courses during their first semester at MSC and must satisfactorily complete these courses within the first year of enrollment (full-time students) or within two years of enrollment (part-time students). No student may withdraw from a developmental course, and any student will be dismissed from MSC who does not satisfactorily complete the re quired developmental course(s).

6. Since the Mathematics Department has Basic Skills prerequisites for all of its courses, students will not receive credit for any mathematics course if the Basic Skills requirement has not been satisfied.

7. The MSC Basic Skills requirement in Speech must be fulfilled within a student's first 58 semester hour credits by:
   A. Satisfactory completion of the Speech Communication Requirement.

   OR

   B. Successful Speech Placement/Waiver evaluation:
   Application for this examination can be made in early October or early February at the Department of Broadcasting, Speech Communication, Dance and Theatre. Passing the examination *does not* grant semester hour credit, only satisfaction of the Speech requirement.

8. All questions about Basic Skills should be addressed to the Basic Skills Testing Office, Richardson Hall, Room 221, telephone (201-893-4476).



General Education Requirement

Appendix of Courses

The following courses fulfill the General Education Requirement for full time freshmen and part-time students who began their studies at Montclair State College in Summer/Fall, 1983 or thereafter, and transfer students entering the College in Fall 1985. Refer to the Legend of Departments/ Subject Areas and Undergraduate Course Number Codes at the end of this section in order to determine which department offers the course.

GENERAL EDUCATION REQUIREMENT COURSES

COMMUNICATION

Writing

English
ENGL 105 Freshman Composition

Honors Program
HONP 100 Honors Seminar: Great Books and Ideas, Part I**
HONP 101 Honors Seminar: Great Books and Ideas, Part II**

Reading

English
ENGL 106 Introduction to Literature

Honors Program
HONP 100 Honors Seminar: Great Books and Ideas, Part I**
HONP 101 Honors Seminar: Great Books and Ideas, Part II**

Reading and Educational Media
READ 105 Reading: Communication Through Text

Speaking/Listening

Broadcasting, Speech Communication, Dance and Theatre
STSP 101 Fundamentals of Speech: Communications Requirement

Communication Sciences and Disorders
CS&D 101 Fundamentals of Speech: Communications Requirement

CONTEMPORARY ISSUES

Anthropology
ANTH 206 Human Variation*
ANTH 214 Anthropology of Conflict and Violence
ANTH 311 Anthropology of American Subcultures*†
ANTH 320 Contemporary Practical Anthropology

Classics
GNHU 176 Italians and Italian-Americans: Comparative Studies

Educational Foundations
EDFD 264 Sexism in American Education*
EDFD 477 Ethnic/Racial Groups and the Schools in America

English
ENGL 175 The Vietnam War Experience and American Culture

Environmental, Urban and Geographic Studies
EUGS 109 The Human Environment

Health Professions
HLTH 210 Consumer Health
HLTH 213 Perspectives on Drugs

Home Economics
HECO 205 Women in Contemporary Society*
HECO 344 Challenge of Aging
HEDN 260 Housing and Society
HEFM 445 The Inner City Family*†
HEMG 270 Individual Management: Theories and Strategies
HENU 153 Food and People

Honors Program
HONP 102 Honors Seminar: Twentieth Century Civilization, Part I**

Linguistics
LNGN 250 Language of Propaganda

Management
MGMT 363 Business and Society

Philosophy and Religion
RELG 225 Religion and Social Change

Physical Education, Recreation and Leisure Studies
PEMJ 227 Social Problems in Sports
PERL 208 Leisure and Recreation in Society

Physics and Geoscience
GEOS 221 Conservation of National Resources

Psychology
PCOM 245 Introduction to Community Psychology
PSYC 102 Women's Worlds*
PSYC 109 The Human Environment
PSYC 231 Psychology of Aggression*

Reading and Educational Media
MEDI 355 Media in Intercultural Communication*†

Sociology
SOCI 113 Social Problems
SOCI 202 Racial and Ethnic Relations*†
SOCI 209 Sociology of Poverty and Welfare
SOCI 211 Sociology of Health and Illness
SOCI 212 Sociology of Technology
SOCI 214 Sociology of Conflict and Violence
SOCI 216 Sociology of Food and Population
SOCI 218 Sociology of Population

Technology
INDS 249 Alternate Energy
ISED 101 Technology and Culture: Past, Present and Future

Women's Studies
WMST 102 Women's Worlds*

FINE AND PERFORMING ARTS: ART APPRECIATION

Broadcasting, Speech Communication, Dance and Theatre
STDN 105 Dance Appreciation
STDN 315 Dance History: Primitive to 1850
STDN 316 Dance History: 1850 to Present
STTH 100 Introduction to the Theatrical Medium

Classics
GNHU 208 Introduction to the Film
GNHU 288 Music and Art in French Civilization

English
ENFL 208 Introduction to the Film
ENID 208 Introduction to the Film

* *Meets Multicultural Awareness Requirement.*
† *Meets Human and Intercultural Relations Requirement for teacher certification.*
** *For honors program students only.*
(1) *Recommended for students with strong math/science background.*

Fine Arts

ARFL 299 History of Cinema as Art
ARGN 100 Introduction to the Visual Arts
ARHS 105 Art in Western Civilization:Ancient and Medieval
ARHS 106 Art in Western Civilization: Renaissance to Modern
ARHS 108 Women in Art
ARHS 215 Ancient Art
ARHS 217 Selected Masterpieces of World Art
ARHS 275 Afro-American Art*
ARHS 327 History of Oriental Art
ARHS 328 Survey of Greek Art
ARHS 450 Modern Architecture
ARMT 230 History of Textiles: Focus on the Americas
ARMT 231 Global Textiles
ARPR 230 History of the Print
ARPT 215 Art Forum

Honors Program

HONP 201 Honors Seminar in the Foundations of the Creative Process**

Music

MUGN 100 Introduction to Music
MUGN 160 Introduction to Music in World Cultures
MUGN 209 Introduction to Jazz*
MUGN 236 The American Musical
MUGN 237 Survey of Music Theatre
MUGN 238 Orchestral Literature
MUGN 240 Music of the Romantic Period

FOREIGN LANGUAGE

Classics

GREK 101 Beginning Greek I
GREK 112 Beginning Greek II
GREK 121 Intermediate Greek I
GREK 132 Intermediate Greek II
LATN 101 Beginning Latin I
LATN 112 Beginning Latin II
LATN 121 Intermediate Latin I
LATN 132 Intermediate Latin II
LATN 201 Latin Literature of the Republic
LATN 202 Latin Literature of the Golden Age
LATN 203 Latin Literature of the Silver Age

French

FREN 101 Beginning French I
FREN 112 Beginning French II
FREN 121 Intermediate French I
FREN 132 Intermediate French II
FREN 145 Introduction to French Culture
FREN 146 Readings in French Literature

German and Russian

GERM 101 Beginning German I
GERM 103 Beginning German I (Reading)
GERM 112 Beginning German II
GERM 114 Beginning German II (Reading)
GERM 121 Intermediate German I
GERM 123 Intermediate German I (Reading)
GERM 132 Intermediate German II
GERM 134 Intermediate German II (Reading)
GERM 151 Advanced German I
GERM 152 Advanced German II
GERM 251 Introduction to German Literature I
GERM 252 Introduction to German Literature II
GERM 351 German Civilization I
GERM 352 German Civilization II
RUSS 101 Beginning Russian I
RUSS 112 Beginning Russian II
RUSS 121 Intermediate Russian I
RUSS 132 Intermediate Russian II
RUSS 141 Advanced Russian I
RUSS 152 Advanced Russian II

Linguistics

CHIN 101 Beginning Chinese I
CHIN 112 Beginning Chinese II
CHIN 121 Intermediate Chinese I
CHIN 132 Intermediate Chinese II
LNGN 220 Structure of American English

Spanish and Italian

ITAL 101 Italian I
ITAL 102 Italian II
ITAL 103 Italian III
ITAL 104 Italian IV
ITAL 240 Studies in Italian Literature: Origins to 18th Century
ITAL 241 Italian Literature: 18th through 20th Centuries
ITAL 260 Italian Cultural History
PORT 101 Portuguese I
PORT 102 Portuguese II
PORT 103 Portuguese III
PORT 104 Portuguese IV
PORT 160 Masterpieces of Portuguese Literature
PORT 162 Masterpieces of Brazilian Literature
PORT 260 Luso-Brazilian Culture
SPAN 101 Spanish I
SPAN 102 Spanish II
SPAN 103 Spanish III
SPAN 104 Spanish IV
SPAN 120 Comprehensive Spanish I and II
SPAN 140 Comprehensive Spanish III and IV
SPAN 145 Readings in Hispanic Literature
SPAN 151 Masterpieces of Spanish Literature I
SPAN 152 Masterpieces of Spanish Literature II
SPAN 161 Masterpieces of Spanish-American Literature I
SPAN 162 Masterpieces of Spanish-American Literature II
SPAN 260 Spanish Cultural History
SPAN 270 Spanish-American Cultural History*
SPAN 280 Cuban Cultural History*

HUMANITES

World Literature

English

ENLT 176 World Literature: The Coming of Age Theme
ENLT 177 World Literature: Voices of Tradition and Challenge

General Humanities

Classics

GNHU 201 General Humanities I
GNHU 202 General Humanities II
GNHU 285 Mythology

* *Meets Multicultural Awareness Requirement.*
† *Meets Human and Intercultural Relations Requirement for teacher certification.*
** *For honors program students only.*
(1) *Recommended for students with strong math/science background.*

Fine Arts
ARHS 250 Modern Philosophies of Art

Philosophy/Religion
Educational Foundations
EDFD 220 Philosophical Orientation to Education
Philosophy and Religion
PHIL 100 Introduction to Philosophy
PHIL 106 Logic
PHIL 210 Ethics
PHIL 212 Social and Political Philosophy
RELG 100 Religions of the World
RELG 101 Introduction to Religion
RELG 103 Religion and Moral Issues
RELG 221 Religion and Culture
RELG 269 Death and Dying: Religious Perspectives

MATHEMATICS

Computer Science
Honors Program
HONP 112 Honors Seminar in Computing**
Mathematics and Computer Science
CMPT 107 Computers and Society
CMPT 108 Computers and Programming
CMPT 109 Introduction to Computer Applications
CMPT 112 Honors Seminar in Computing**
CMPT 183 Foundations of Computer Science I (1)

Mathematics
Mathematics and Computer Science
MATH 103 The Development of Mathematics
MATH 106 Contemporary Applied Math for Everyone
MATH 109 Statistics
MATH 116 Calculus A (1)
MATH 122 Calculus I (1)
MATH 221 Calculus II (1)

NATURAL/PHYSICAL SCIENCE

Laboratory or Non-Laboratory Science
Biology
BIOL 100 Biological Sciences
BIOL 103 Basic Biology I
BIOL 104 Basic Biology II
BIOL 110 The Biology of Human Life
BIOL 130 General Zoology I (1)
BIOL 131 General Zoology II (1)
BIOL 140 Biology of the Cell (1)
Chemistry and Biochemistry
CHEM 100 Introductory Chemistry
CHEM 120 General Chemistry I (1)
Honors Program
HONP 210 Honors Seminar in Science I**
Physics and Geoscience
GEGN 100 Concepts in Science
GEGN 105 Science of Sound
GEGN 107 Planet Earth
GEOS 112 Physical Geology
GEOS 114 Historical Geology
GEOS 125 Earth and the Environment
PHYS 191 General Physics I (1)
PHYS 192 General Physics II (1)
PHYS 193 College Physics I (1)
PHYS 194 College Physics II (1)

Laboratory Science Only
Biology
BIOL 121 The Plant Kingdom (1)

Non-Laboratory Science Only
Anthropology
ANTH 101 Physical Anthropology
Biology
BIOL 107 Biology for Survival
BIOL 109 Introductory Ecology: The Living World
BIOL 215 Human Heredity
Chemistry and Biochemistry
CHEM 102 Our Material World
Environmental, Urban and Geographic Studies
EUGS 100 Principles of Geography
Health Professions
HLTH 240 Foundations of Environmental Health
Home Economics
HENU 182 Nutrition
Honors Program
HONP 211 Honors Seminar in Science II**
Physics and Geoscience
GEGN 104 History of Science
GEGN 106 Science and Society
GEGN 108 Principles of Geology
GEGN 110 Natural Disasters
GEGN 157 Understanding the Weather
GEGN 162 General Oceanography
GEGN 180 Descriptive Astronomy

PHYSICAL EDUCATION
Physical Education, Recreation and Leisure Studies
PEGN 200 Beginning Swimming
PEGN 201 Springboard Diving
PEGN 202 Badminton
PEGN 203 Golf
PEGN 240 Platform Tennis
PEGN 242 Racquetball
PEGN 250 Intermediate Swimming
PEGN 251 Aerobic Activities
PEGN 252 Archery
PEGN 253 Gymnastics
PEGN 257 Weight Training and Conditioning
PEGN 258 Beginning Tennis
PEGN 260 Beginning Riding
PEGN 261 Fencing
PEGN 262 Volleyball
PEGN 263 Jogging
PEGN 264 Soccer
PEGN 265 Figure Skating
PEGN 266 Skiing
PEGN 267 Advanced Swimming
PEGN 268 Bicycling
PEGN 270 Folk and Square Dance
PEGN 271 Social Dance
PEGN 272 Bowling
PEGN 274 Scuba Diving

* *Meets Multicultural Awareness Requirement.*
† *Meets Human and Intercultural Relations Requirement for teacher certification.*
** *For honors program students only.*
(1) *Recommended for students with strong math/science background.*

PEGN 275 Beginning Karate
PEGN 278 Yoga

SOCIAL SCIENCE

American/European History

Classics
GNHU 281 Greek Civilization
GNHU 282 Roman Civilization

History
HIST 103 Foundations of Western Civilization
HIST 105 Emergence of European Civilization 1500-1914
HIST 106 Contemporary Europe, 1914-Present
HIST 110 Introduction to American Civilization
HIST 111 Contemporary American Issues in Historical Perspective
HIST 117 History of the United States To 1876
HIST 118 History of the United States Since 1876
HIST 281 Greek Civilization
HIST 282 Roman Civilization

Technology
INDS 248 Historical Perspectives of American Industries-Field Study

Non-Western Cultural Perspectives

Anthropology
ANTH 301 Peoples of Africa*
ANTH 302 Native Latin Americans*
ANTH 305 Native North Americans*
ANTH 307 Ethnology of Southeast Asia and Oceania*
ANTH 310 Cultures of the Middle East
ANTH 312 Peasant Culture
ANTH 431 Development of Indian Character and Culture
ANTH 432 Development of Japanese Character and Culture

Classics
GNHU 293 Russian Culture and Civilization

Economics and Finance
ECON 303 Economic Growth and Development

Environmental, Urban and Geographic Studies
EUGS 412 Geography of the Sub-Sahara Africa
EUGS 413 Geography of the Middle East

Fine Arts
ARHS 220 Art in Non-Western Societies*

German and Russian
GRIN 293 Russian Culture and Civilization

History
HIST 108 Introduction to African Civilization*
HIST 109 Introduction to Islamic Civilization
HIST 114 Early Latin American Civilization*
HIST 131 Introduction to Indian Civilization*
HIST 132 Introduction to Chinese Civilization*
HIST 223 Communist Revolution in China
HIST 431 Development of Indian Character and Culture
HIST 432 Development of Japanese Character and Cultur

Philosophy and Religion
RELG 210 Religion of the North American Indians*

Political Science
POLS 204 Government and Politics of Africa
POLS 206 Government and Politics of China-Japan

Sociology
SOCI 220 Sociology of Rich and Poor Nations

Survey Courses

Anthropology
ANTH 100 Cultural Anthropology*
ANTH 203 Anthropological Linguistics
ANTH 205 Prehistoric Archaeology

Economics and Finance
ECON 100 Introduction to Economics
ECON 101 Principles of Economics: Macro
ECON 102 Principles of Economics: Micro

Environmental, Urban and Geographic Studies
EUGS 101 Human Geography

Honors Program
HONP 203 Honors Seminar on Social Analysis**

Linguistics
LNGN 210 Introduction to General Linguistics

Political Science
POLS 201 Comparative Politics

Psychology
PSYC 101 General Psychology I: Growth and Development
PSYC 246 Psychology of the Black Experience*†

Sociology
SOCI 100 The Sociological Perspective

Topic Courses

Anthropology
ANTH 200 Urban Anthropology*†
ANTH 202 Cultural Change and Modernization
ANTH 207 American Folk Culture

Business Education and Office Systems Administration
BSED 101 Contemporary Business

Classics
GNHU 181 Introduction to Classical Archaeology

Economics and Finance
ECON 215 Economics of Social Problems*†
ECON 403 Comparative Economic Systems

Educational Foundations
EDFD 440 Sociological Foundations of Education

Environmental, Urban and Geographic Studies
EUGS 102 World Geography
EUGS 206 Introduction to American Urban Studies*
EUGS 308 Land and Life in Latin America*
EUGS 313 Urban Geography*†

Home Economics
HEFM 140 Family in Society
HEMG 231 The Family in the Economic System

Honors Program
HONP 103 Honors Seminar: Twentieth Century Civilization, Part II**

Linguistics
LNGN 230 Language in Society
LNGN 245 Language and Culture
LNGN 255 Women, Men and Language*

Political Science
POLS 100 Introduction to Politics
POLS 101 American Government and Politics

* *Meets Multicultural Awareness Requirement.*
† *Meets Human and Intercultural Relations Requirement for teacher certification.*
** *For honors program students only.*
(1) *Recommended for students with strong math/science background.*

Psychology
PSYC 105 The Psychological Study of Social Issues
PSYC 200 Educational Psychology
PSYC 201 Child Psychology
PSYC 202 Adolescent Psychology
PSYC 225 Psychology of Adjustment
PSYC 265 Psychology of Women*
Sociology
SOCI 101 Criminology
SOCI 204 Sociology of the Family
SOCI 207 Social Structure of American Society

ELECTIVES
The following may be used to satisfy the General Education Elective Requirement:

1. GER approved courses (other than Physical Education)
2. General introductory courses at the 100-level or 200-level in any department in the schools of Fine and Performing Arts, Humanities and Social Sciences, and Mathematical and Natural Sciences.
3. Courses in the areas of Creative Expression and/or Personal/ Professional Issues.

Note: General Education Electives must be taken outside the student's major.

Creative Expression
Broadcasting, Speech Communication, Dance and Theatre
STSP 260 Oral Interpretation of Literature
STSP 363 Reader's Theatre
STTH 105 Acting I - Non B.F.A.
Fine Arts
ARFL 218 Film Making I
ARFL 219 Film Making II
ARFL 221 Video-Television as an Art Form I
ARGN 103 Visual Arts Studio I
ARGN 104 Visual Arts Studio II
ARGN 107 Drawing I
ARGN 125 Multi-Media I
ARGN 215 Drawing II
ARGN 220 Life Drawing I
ARGN 225 Multi-Media II
ARGN 280 Life Drawing II
ARGN 311 Intermediate Papermaking I
ARMT 200 Leather I
ARMT 202 Ceramics, Pottery and Sculpture I
ARMT 203 Ceramics, Pottery and Sculpture II
ARMT 204 Fibers and Fabrics I
ARMT 205 Fibers and Fabrics II
ARMT 206 Leather II
ARMT 207 Surface Design I
ARMT 210 Textile Design I
ARMT 225 Surface Design II
ARPH 213 Photography I: A Contemporary Art Form
ARPH 214 Intermediate Photography: A Contemporary Art Form
ARPH 231 Humorous and Satirical Illustration for Publication
ARPR 120 Introduction to Printmaking
ARPR 200 Introduction to Etching and Relief Printing
ARPR 202 Introduction to Lithography
ARPT 200 Painting I
ARPT 201 Painting II
ARPT 211 Sculpture I
ARPT 212 Sculpture II
ARPT 244 Sculpture: Modeling and Casting I
ARPT 245 Sculpture: Carving I
ARPT 246 Sculpture: Metal Casting I
ARPT 247 Sculpture: Fabrication I
ARPT 248 Sculpture: Welding-Brazing I
ARPT 249 Sculpture: Clay I
ARPT 250 Figurative Painting
ARPT 254 Sculpture: Modeling and Casting II
ARPT 255 Sculpture: Carving II
ARPT 256 Sculpture: Metal Casting II
ARPT 257 Sculpture: Fabrication II
ARPT 258 Sculpture: Welding-Brazing II
ARPT 259 Sculpture: Clay II
Music
MUCP 150 Fundamentals of Music for the Non-Major
MUGN 250 Sounds of the City
MUPR 100 Class Piano for Non-Music Majors
MUPR 103 Voice Class for the Non-Music Major
MUPR 105 Modern Guitar Workshop

Personal/Professional Issues
Business Education and Office Systems Administration
BSED 309 Personal Finance
Counseling, Human Development and Educational Leadership
COUN 330 Dynamics of One-to-One Communication
COUN 331 Group Dynamics
COUN 432 Personal Values
COUN 482 Career Consciousness
Fine Arts
ARTH 250 Introduction to Art Therapy
ARTH 310 Group Art Therapy and Creativity Development
Health Professions
HLTH 101 Personal Health Issues
HLTH 220 Mental Health
HLTH 290 Human Sexuality
Home Economics
HECO 141 Interpersonal Relations
HEFM 320 Parenting Skills and Resources
HETX 122 Clothing and Culture: A Multidisciplinary Study
Legal Studies
LSLW 200 Introduction to Law and Legal Professions
Psychology
PSYC 103 Freshman Seminar
Sociology
SOCI 206 Individual and Society

* *Meets Multicultural Awareness Requirement.*
† *Meets Human and Intercultural Relations Requirement for teacher certification.*
** *For honors program students only.*
(1) *Recommended for students with strong math/science background.*

LEGEND OF ALPHA COURSE CODES

School of Business Administration

Accounting, Law and Taxation
- Accounting ..... ACCT
- Business Law ..... BSLW
- Business/General ..... BUGL

Business Education and Office Systems Administration
- Business Education ..... BSED
- Business Education and Office Systems Administration ..... BEOS
- Distributive Education ..... DIST

Economics and Finance
- Business/Economics ..... BSEC
- Economics ..... ECON
- Finance ..... FINC

Management
- Finance/Quantitative ..... FINQ
- Management ..... MGMT

Marketing
- Marketing ..... MKTG
- Marketing/Business ..... MKAD

School of Fine and Performing Arts

Broadcasting, Speech Communication, Dance and Theatre
- Speech and Theatre/Broadcasting ..... STBD
- Speech and Theatre/Communication ..... STSP
- Speech and Theatre/Dance ..... STDN
- Speech and Theatre/Management ..... STMG
- Speech and Theatre/Theatre ..... STTH

Fine Arts
- Fine Arts/Education ..... ARED
- Fine Arts/Exhibition ..... AREX
- Fine Arts/Film ..... ARFL
- Fine Arts/General ..... ARGN
- Fine Arts/History ..... ARHS
- Fine Arts/Management ..... ARMG
- Fine Arts/Ceramic/Metals/Fibers ..... ARMT
- Fine Arts/Photography ..... ARPH
- Fine Arts/Printmaking ..... ARPR
- Fine Arts/Painting ..... ARPT
- Fine Arts/Therapy ..... ARTH
- Fine Arts/Environmental Design ..... AREN

Music
- Music/Education ..... MUED
- Music/General ..... MUGN
- Music/History ..... MUHS
- Music/Major Instrument ..... MMIN
- Music/Management ..... MUMG
- Music/Performance ..... MUPR
- Music/Primary Instrument ..... MSIN
- Music/Secondary Instrument ..... MSSN
- Music/Theory/Composition ..... MUCP
- Music/Therapy ..... MUTH

School of Humanities and Social Sciences

Anthropology
- Anthropology ..... ANTH
- Anthropology/Practical ..... PRAN

Classics
- General Humanities ..... GNHU
- Classics/Greek ..... GREK
- Classics/Latin ..... LATN

Communication Sciences and Disorders
- Communication Sciences and Disorders ..... CS&D

English
- English ..... ENGL
- English/Film ..... ENFL
- English/Grammar ..... ENGM
- English/Interdisciplinary ..... ENID
- English/Literature ..... ENLT
- English/Writing ..... ENWR

Environmental, Urban and Geographic Studies
- Environmental Studies ..... EUGS
- Urban and Geographic Studies ..... ENVR
- Geography/Latin American ..... GELA

French
- French ..... FREN
- French/Interdisciplinary ..... FRIN

German and Russian
- German/Slavic ..... GERM
- German/Interdisciplinary ..... GRIN
- German/Russian ..... RUSS

History
- History ..... HIST
- Social Science ..... SOSC

Linguistics
- Linguistics ..... LNGN
- Linguistics/Chinese ..... CHIN
- Linguistics/ESOL ..... ESOL

Legal Studies
- Legal Studies/Law ..... LSLW
- Legal Studies/Paralegal ..... LSPA
- Legal Studies/Paralegal ..... LSPR

Philosophy and Religion
- Philosophy ..... PHIL
- Religion ..... RELG

Political Science
- Political Science ..... POLS

Psychology
- Psychology ..... PSYC
- Psychology/Community ..... PCOM

Sociology
- Sociology ..... SOCI

Spanish and Italian
- Spanish ..... SPAN
- Spanish/Italian Interdisciplinary ..... SPIN
- Italian ..... ITAL
- Portuguese ..... PORT

School of Mathematical and Natural Sciences

Biology
- Biology ..... BIOL
- Biology/Cell Culture ..... BICL
- Biology/Marine Sciences ..... BIMS
- Biology/Toxicology ..... TOXI

Chemistry and Biochemistry
- Chemistry ..... CHEM

Mathematics and Computer Science
- Mathematics ..... MATH
- Computer Science ..... CMPT

Physics and Geoscience
- Geoscience ..... GEOS
- Geoscience General ..... GEGN
- Physics/Geoscience ..... PHYS
- Physics/Geoscience Education ..... PHED
- Physics/Geoscience - Marine Science ..... PHMS

School of Professional Studies

Continuing Education
- Adult Education ..... ADED

Counseling, Human Development and Educational Leadership
- Counseling, Human Development and Educational Leadership ..... COUN

Curriculum and Teaching
- Curriculum and Teaching ..... CURR

Educational Foundations
- Educational Foundations ..... EDFD
- Educational Research ..... ELRS

Environmental Education - New Jersey School of Conservation
- Conservation/Field Studies ..... CNFS

Health Profession
- Health Professions. ..... HLTH

Home Economics
- Home Economics ..... HECO
- Home Economics/Design ..... HEDN
- Home Economics/Education ..... HEED
- Home Economics/Family ..... HEFM
- Home Economics/Foods ..... HEFD
- Home Economics/Management ..... HEMG
- Home Economics/Nutrition ..... HENU
- Home Economics/Textile ..... HETX

Physical Education, Recreation and Leisure Studies
- Physical Education/Major ..... PEMJ
- Physical Education/Non-major ..... PEGN
- Recreation ..... PERL

Reading and Educational Media
- Educational Media ..... MEDI
- Reading ..... READ

Technology
- Industrial Studies ..... ISED
- Industrial Studies/Coop Education ..... ISCP
- Industrial Studies/Technology ..... INDS
- Industrial Studies/Vocational ..... ISVC

Special Programs
- Cooperative Education ..... COED
- Honors Program, College ..... HONP
- International Studies ..... INTL
- Reserve Officers Training Corps (ROTC) ..... ROTC
- Women's Studies ..... WMST

ACADEMIC PROGRAMS BY DEPARTMENTS

ACCOUNTING, LAW AND TAXATION

SCHOOL OF BUSINESS ADMINISTRATION

Chairperson: Diane K. Schulz

Increased government regulation and business expansion demand added expertise of today's accountant. The department's accounting program prepares students for careers in public and private accounting.

The Certified Public Accountant (CPA) is concerned with public accounting. CPA's render a variety of services for their clients: conducting independent audits and providing accounting, tax, and management advisory services. The program meets all educational requirements for admission to the CPA examination.

In the private sector, graduates are prepared primarily for industrial accounting leadership positions. The program emphasizes the structure, design, and analysis of accounting systems in the financial reporting and management decision processes.

The accounting courses integrate the study of theory and current practice with research and computer applications.

A Bachelor of Science degree is offered in Business Administration with specializations in professional accounting and managerial accounting.

Business Administration Major

Required Courses

			Semester Hours
ACCT	201	Fundamentals of Accounting I	3
ACCT	202	Fundamentals of Accounting II	3
BSLW	261	Legal Environment of Business I	3
FINQ	270	Statistics for Business	4
MGMT	311	Management Process and Organizational Behavior	4
FINC	321	Fundamentals of Finance	3
MKTG	340	Introduction to Marketing	3
FINQ	372	Management Science	4
MGMT	439	Business Policy	3
FINQ	463	Administrative Research Methodology and Analysis	3

Collateral Courses

MATH	113	Mathematics for Business I	3
MATH	114	Mathematics for Business II	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

Two courses from two of the following departments:
Anthropology, Psychology, Sociology 6

Specializations within the Major

PROFESSIONAL ACCOUNTING

Required Courses

			Semester Hours
ACCT	301	Intermediate Accounting I	4
ACCT	302	Intermediate Accounting II	4
ACCT	303	Auditing Theory and Practice	3
ACCT	307	Cost Accounting and Control I	3
ACCT	403	Tax Accounting	3

Accounting Elective

Select 3 semester hours from the appropriate list to be obtained from the department 3

Business Administration Electives

Select 6 semester hours from the appropriate list to be obtained from the department 6

MANAGERIAL ACCOUNTING

Required Courses

			Semester Hours
ACCT	301	Intermediate Accounting I	4
ACCT	302	Intermediate Accounting II	4
ACCT	307	Cost Accounting and Control I	3
ACCT	308	Cost Accounting II	3

Accounting Electives

Select 6 semester hours from the appropriate list to be obtained from the department 6

Business Administration Electives

Select 6 semester hours from the appropriate list to be obtained from the department 6

Courses of Instruction

ACCT 200
ACCOUNTING FOR NON-BUSINESS MAJORS 3.0
This is a basic course in the concepts and uses of financial data as it relates to business decision making. (Not for business majors.)

ACCT 201
FUNDAMENTALS OF ACCOUNTING I 3.0
Mastery of the fundamental elements of accounting, journalizing, posting, taking a trial balance, preparing financial statements and closing books; special journals and controlling accounts.
Prerequisites: Math 113, 114; ECON 101, 102.

ACCT 202
FUNDAMENTALS OF ACCOUNTING II 3.0
Builds on financial accounting. Corporation accounting, bonds payable, investments, manufacturing costs, cash flow analysis and profit-volume relationships.
Prerequisite: ACCT 201.

ACCT 301
INTERMEDIATE ACCOUNTING I 4.0
The preparation of advanced accounting statements, valuation of current and fixed assets, intangible assets, current liabilities and investments.
Prerequisite: ACCT 202.

ACCT 302
INTERMEDIATE ACCOUNTING II 4.0
A continuation of principles underlying financial statements, long-term liabilities, present value analysis, corporate capital, funds flow and special purpose funds.
Prerequisite: ACCT 301.

ACCT 303
AUDITING THEORY AND PRACTICE 3.0
The conduct of audits of various types; the balance sheet audit; audit working papers; correction of books and preparation of audit reports.
Prerequisite: ACCT 302.

ACCT 307
COST ACCOUNTING AND CONTROL I 3.0
The determination of product costs and elements of cost control applied to basic job order, process and standard cost systems. The nature of manufacturing costs and the use of accounting data in decision-making.
Prerequisite: ACCT 202.

ACCT 308
COST ACCOUNTING AND CONTROL II 3.0
Estimating cost, budgets and cost, standard cost, analysis and control of costs, break-even analysis and differential cost analysis.
Prerequisite: ACCT 307.

ACCT 401
ADVANCED ACCOUNTING 3.0
Accounting problems peculiar to consolidated financial statements, partnership accounts and special sales procedures.
Prerequisite: ACCT 302.

ACCT 403
TAX ACCOUNTING 3.0
A comprehensive picture of the federal tax structure; the determination of net income, credits exemptions and rates for various taxpayers.
Prerequisite: ACCT 202.

ACCT 404
CURRENT TAX PROBLEMS 3.0
Advanced phases of income taxation with particular attention to corporations, partnerships and estates.
Prerequisite: ACCT 403.

BSLW 261
LEGAL ENVIRONMENT OF BUSINESS I 3.0
A study of the legal principles of a governed society and the social forces within such a society. Special attention is accorded to the law of contracts and of agency, employing the uniform commercial code as a basis for interpretation. Case material.

BSLW 262
LEGAL ENVIRONMENT OF BUSINESS II 3.0
An analysis of the law of commercial paper and sales with an introduction to secured transactions. The basic statutory source employed is the uniform commercial code. Case material (recommended for CPA preparation).
Prerequisite: BSLW 261.

BSLW 263
LEGAL ENVIRONMENT OF BUSINESS III 3.0
An analysis of the law of partnerships and corporations including the nature of formation, rights, and duties of parties, and dissolution. The basic statutory sources employed are the uniform partnership act and the model business corporation act; case material.
Prerequisites: BSLW 262, FINC 321.

BSLW 400
INTERNATIONAL BUSINESS LAW 3.0
A study of international business law covering such areas as: (1) function and importance of international public law, (2) the role of international organizations and private dispute settlement procedures, (3) sales transactions in international law, and (4) the regulation of the international market and the principles of international trade including the law of foreign licensing and investment.
Prerequisite: BLSW 261



ANTHROPOLOGY

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES
Chairperson: Kenneth Brook

All peoples and all aspects of human life are the subject of anthropology. The discipline stresses objectivity through the study of other peoples; provides insights from the studies that others make of us; and teaches responsibility by applying the results to problems in our rapidly changing, evolving world. The four basic fields: cultural anthropology, archaeology, physical anthropology, and anthropological linguistics are represented in the department. Two programs, a bachelor of arts general anthropology major and a unique five-year combined undergraduate and graduate program in practical anthropology that culminates with the master of arts degree, are offered by the department. Both programs address diverse interests and career objectives of students.

GENERAL ANTHROPOLOGY MAJOR

The general anthropology major, for which a B.A. degree is awarded, prepares students for advanced work in the discipline which can lead to college teaching, museum curatorial work, and/or research, as well as careers in non-academic settings. For students interested in a strong liberal arts background, the general major is an excellent program which can be adapted to varied professional and career goals. An internship component is available to students in the program which provides opportunities to test their acquired knowledge in actual work settings. Additionally, the program can be adapted to meet certification requirements for teaching social studies in New Jersey secondary schools.

Required Courses

	Semester Hours
ANTH 100 Cultural Anthropology	3
ANTH 101 Physical Anthropology	3
ANTH 203 Anthropological Linguistics	3
ANTH 205 Prehistoric Archaeology	3

Electives (Cross-cultural)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Electives (Theory and Methods)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Note: Work in supportive areas - e.g., international studies, non-western history, cultural geography, urban studies, social psychology, primitive art, ethno-musicology, the natural sciences, statistics, sociology, linguistics, and foreign language - is strongly recommended and should be discussed with major advisors.

TEACHER CERTIFICATION

(Social Studies)

Students wishing teacher certification must be admitted to the teacher education program and follow the professional sequence outlined in this catalog. They should consult the faculty advisor for the social studies certificate.

FIVE-YEAR COMBINED UNDERGRADUATE AND GRADUATE PROGRAM IN PRACTICAL ANTHROPOLOGY CULMINATING WITH THE M.A. DEGREE

Program Coordinator: Dr. Kenneth Brook

The five-year combined undergraduate and graduate program in practical anthropology culminating with the M.A. degree provides an integrated and challenging approach to undergraduate and graduate education in anthropology. Its primary objective is to provide students with the knowledge, skills, and experience required to pursue careers in applied anthropology. Its emphasis is on *practice* and the utilization of anthropological knowledge, as well as adherence to the discipline's four-field approach and culture area perspective. Students are instructed in the qualitative and quantitative methodologies used by practicing anthropologists and, as senior/graduate apprentices, acquire valuable field experience in regional public and private agencies where, under faculty guidance and professional supervision, they assume responsibility for completing a significant project. Growing occupational opportunities for practicing anthropologists exist in public interest organizations, market research and consumer affairs, multi-national corporations, contract archaeology, international relations, medical and mental health programs, and numerous federal and state agencies. The only program of its type in the northeast, the major has been commended for the balance it achieves between academic integrity and practical concerns.

Required Courses

		Semester Hours
ANTH 100	Cultural Anthropology	3
ANTH 101	Physical Anthropology	3
ANTH 200	Urban Anthropology	3
ANTH 203	Anthropological Linguistics	3
ANTH 205	Prehistoric Archaeology	3
ANTH 320	Contemporary Practical Anthropology	3
ANTH 321	Methods in Anthropological Research and Practice	3
ANTH 531	Regional Problems in Practical Anthropology (Seminar)	3
ANTH 537	Responding to Culture Change	3
ANTH 603	Reading Seminar (Comprehensive Examination)	2

Ethnology Requirement: (2 courses) 6

Topical Anthropology Courses 12
2 Undergraduate Courses
2 Graduate Courses

Field Methods (in Specialty Area) 3

Apprenticeship 13
PRAN 420 Pre-Apprenticeship
PRAN 520 Apprenticeship
PRAN 620 Post-Apprenticeship in Practical Anthropology
Note: In addition to the foregoing, students are required to complete 6 semester hours in quantitative methodology. The list of courses which meet the methodology, ethnology, topical, and field methods requirements may be obtained from the department. For graduate course descriptions (500 and 600 levels), students are advised to consult the program coordinator.

Courses of Instruction

ANTH 100
CULTURAL ANTHROPOLOGY 3.0
Analysis of transcultural data; basic methodologies, concepts and goals of anthropology; the nature of culture, its role in human experience and its universality. Meets the General Education Requirement—Social Science, Survey Course. Meets the Multicultural Awareness Requirement.

ANTH 101
PHYSICAL ANTHROPOLOGY 3.0
The biological basis of human evolution including surveys of human paleontology, primatology and human races. The relationship of culture to human development; lectures, field trips and the use of fossil and audio-visual materials. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science.

ANTH 200
URBAN ANTHROPOLOGY 3.0
The dynamics of acculturation; relationships between urban subcultures and the broader urban community; values, personality, behaviors and other aspects of the adjustment of people whose lifestyle sets them apart from the dominant society. Meets the General Education Requirement—Social Science, Topic Course. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

ANTH 202
CULTURAL CHANGE AND MODERNIZATION 3.0
Cultural development, growth, transmission, perpetuation and change. The concept of modernization and its implications for folk and urban culture. Meets the General Education Requirement—Social Science, Topic Course.

ANTH 203
ANTHROPOLOGICAL LINGUISTICS 3.0
Different linguistic systems will be analyzed through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems will be emphasized in individual student field experience and in readings and lectures. This course is cross-listed with Linguistics (LNGN 203). Meets the General Education Requirement—Social Science, Survey Course.

ANTH 205
PREHISTORIC ARCHAEOLOGY 3.0
The development, method and theory of anthropological archaeology, analysis and interpretation of prehistoric cultural data by means of audio-visual, field and participatory involvement. Meets the General Education Requirement—Social Science, Survey Course.

ANTH 206
HUMAN VARIATION 3.0
The study of various races from the perspective of physical anthropology. Theories and explanations of human variations, racial types in the modern world, as well as misconceptions concerning race, intelligence, and culture will be explored. Meets the General Education Requirement—Contemporary Issues. Meets the Multicultural Awareness Requirement.

ANTH 207
AMERICAN FOLK CULTURE 3.0
This course introduces students to the anthropological literature concerning American oral (folklore) and material (folklife) folk culture. Students are exposed to the different folklore traditions as well as analytical theory concerning them, in the first half of the course. The second half is devoted to the presentation and analysis of material folk culture. Meets the General Education Requirement—Social Science, Topic Course.

ANTH 214
ANTHROPOLOGY OF CONFLICT AND VIOLENCE 3.0
A multidisciplinary approach to the social sources of conflict and violence; the anthropological approach contrasted with biological and other approaches; inter-personal and institutional conflict and violence; the relationship between conflict and violence: types of conflict and violence, war, crime, family violence, class conflict, ethnic and racial hostilities. Meets the General Education Requirement—Contemporary Issues.

ANTH 215
THE ANTHROPOLOGY OF FOOD AND NUTRITION 3.0
An analysis of cultural practices and their effect on people's diet, nutritional status, and ecological situation. Cross-cultural comparisons will be emphasized.

ANTH 301
PEOPLES OF AFRICA 3.0
Diversity in the lifestyles of representative African cultures; prehistory, culture change, and contemporary problems in sub-Saharan Africa. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

ANTH 302
NATIVE LATIN AMERICANS 3.0
Study of indigenous peoples of Latin America. Surveys earliest evidence of human occupation of middle and south America and the Caribbean; diverse origins of food production; intellectual achievements; political organization; material contributions to world culture; and aspects of early European contact and conquest. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

ANTH 305
NATIVE NORTH AMERICANS 3.0
Amerindian cultures north of Mexico; representative tribes, their world views, and their adaptations to the environment, each other and European contact. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

ANTH 307
ETHNOLOGY OF SOUTHEAST ASIA AND OCEANIA 3.0
Anthropological survey of selected tribal and peasant societies of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia, and the Philippines: recent socio-cultural changes. Meets the General Education Requirement—Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

ANTH 310
CULTURES OF THE MIDDLE EAST 3.0
The Middle East culture area in anthropological perspective. Emphasis is placed on the nature of different interlocking cultural systems which are adaptations to environmental stresses in the Middle East. The concepts of culture and society will be explored in the context of course materials. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

ANTH 311
ANTHROPOLOGY OF AMERICAN SUBCULTURES 3.0
Analysis of the diversity of racial, ethnic, religious, occupational, and other subcultures and subgroups within the U.S. Emphasis on the character of American culture. Subpopulations are examined in relationship to each other and to the mainstream culture. Meets the General Education Requirement—Contemporary Issues. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

ANTH 312
PEASANT CULTURE 3.0
Persistence and change among selected peasant peoples of the world. Characteristics of peasant society, personality in peasant culture and modernization trends and effects. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

ANTH 313
ARCHAEOLOGY OF ANCIENT MIDDLE AMERICA 3.0
The archaeology of ancient cultures of Middle America. Consists of two major units (1) northern Mesoamerica, the Gulf Coast, Oaxaco and Central Mexican Aztecs (2) ancient Maya of Mexico and Central America.

ANTH 320
CONTEMPORARY PRACTICAL ANTHROPOLOGY .0
The course emphasizes the uses of anthropology in contemporary societies by stressing the skills and knowledge needed for the development of practical solutions to current problems. Special attention is placed on: policy decision-making, community development, cultural resource management, advocacy and social impact assessment. Meets the General Education Requirement—Contemporary Issues.

ANTH 321
METHODS IN ANTHROPOLOGICAL RESEARCH
AND PRACTICE 3.0
This course is designed to provide students with both knowledge and experience in the practice of anthropology via participant observation, simulations, project planning, and targeted field exercises. In carrying out selected activities, students will not only learn about the uses of anthropological research techniques in a variety of contexts, but will themselves experience the satisfaction of actually "doing" Anthropology.
Prerequisite: ANTH 320.

ANTH 401
SEMINAR IN ANTHROPOLOGICAL THEORY 3.0
The development of anthropological theory during the past 100 years. Various subdisciplines of cultural and social anthropology are explored and applied to similar bodies of data.
Prerequisite: 6 semester hours in anthropology.

ANTH 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
Transcultural focus on the inter-related nature of culture and human behavior. Interdisciplinary course with emphasis on mutual dependencies of anthropological and psychological theory and method. Students work with bicultural informants. Cross-listed with psychology (PSYC 405).
Prerequisite: ANTH 100 or PSYC 101.

ANTH 406
ANTHROPOLOGY OF AGING AND THE AGED 3.0
An analysis of the influences of cultural systems on the processes of aging. Special emphasis is placed on the behaviors and meanings attached to the stages of growing older in a variety of cultural systems.

ANTH 407
INDEPENDENT RESEARCH IN ANTHROPOLOGICAL THEORY AND METHOD 3.0
Directed research towards the preparation of written papers, stressing fieldwork, library research and problem orientation. A tutorial without formal class meetings.
Prerequisite: Departmental approval.

ANTH 410
FIELD METHODS: VISUAL ANTHROPOLOGY 3.0
This course is designed to provide students with opportunities to explore potential uses of photography in anthropological research and practice. Each student is guided in the development of a project which demonstrates the significance of recording and interpreting visual data in the study of selected aspects of culture, social interaction patterns, and/or individual behavior. As the focus of this experience is on the collection and interpretation of visual data, not the technical aspects of photography, only basic skills and knowledge about effective camera usage are required. Open to non-majors with the instructor's permission.

ANTH 411
ARCHAEOLOGICAL FIELD METHODS 3.0
Provides practical field experience in the various aspects of survey and excavation techniques. A specific area will be surveyed and a site will be excavated.
Prerequisite: ANTH 205 or instructor's permission.

ANTH 412
CULTURAL ECOLOGY 3.0
The relationships between culture and the bio-physical environment, as well as the cultural environment. The emphasis will be on primitive and non-Western cultures.

ANTH 413
MEDICAL ANTHROPOLOGY 3.0
Examines the study of medical care in comparative societies (ethnomedicine) as well as the historical and ecological aspects of disease in human evolution.
Prerequisite: ANTH 101 or instructor's permission.

ANTH 414
SELECTED ISSUES IN ANTHROPOLOGY 3.0-6.0
Identification and analysis of contemporary issues and problems in anthropology - e.g. models of society; new directions in anthropological inquiry and methodology; etc.
Prerequisite: 6 s.h. in Anthropology.

ANTH 415
WOMEN IN TRADITIONAL SOCIETY 3.0
This course surveys several traditional pre-industrial societies with special emphasis on the place of women in each society studied. The connections between environment technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic system is also analyzed. Meets the Multicultural Awareness Requirement.

ANTH 419
EXPERIMENTAL ARCHAEOLOGY 3.0
The course will cover the manufacture, use, preservation, analysis and cataloging of prehistoric artifacts made of stone, bone, and wood.
Prerequisites: ANTH 205 or ANTH 411.

ANTH 420
INTERNSHIP IN ANTHROPOLOGY 3.0-6.0
According to interest and preparation, students are placed in cooperating agencies in order to provide an opportunity to test their acquired theoretical knowledge and to gain disciplined practice in their profession. Under faculty guidance and agency supervision, students are to engage in anthropological fieldwork by conducting research and/or special projects.
Prerequisite: 24 hours in Anthropology, 6 additional hours in the School of Humanities and Social Sciences.

ANTH 430
FIELD METHODS LINGUISTICS 3.0
Focuses on the development of the student's skill in gathering and analyzing linguistic data. Complements the more theoretically oriented courses in linguistics.
Prerequisites: ANTH 203 or LNGN 210.

PRAN 420
PRE-APPRENTICESHIP IN ANTHROPOLOGY 3.0
Students design their apprenticeship in anthropology by completing the following tasks in cooperation with the program's director: identification of potential organizations for internship placement; initial agency visitations; selection of apprenticeship setting; and identification of a practical research problem. Prior to preparing an apprenticeship contract, each student is required to review related literature, produce a statement of objectives, and formulate a preliminary plan for conducting the project.
Prerequisite: ANTH 321.

BIOLOGY

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES
Chairperson: Bonnie Lustigman

The student can prepare for a biology career, graduate work, or professional programs in medicine, dentistry, medical technology, physical therapy, veterinary medicine, pharmacy and other fields related to biology, by taking the major requirements with a proper selection of electives. Students can obtain certification to teach biology by completing the professional sequence. A minor in biology is also available.

Outstanding students can take advantage of the honors program and be granted an "Honors in Biology" by fulfilling the prescribed requirements. For information about the program, contact the department chairperson.

Freshman courses offered for biology majors assume that the student has taken biology, chemistry and physics and at least three years of college preparatory mathematics in high school.

A major in toxicology is also offered and is described later in this catalog.

Biology Major

Required Courses

		Semester Hours
BIOL 121	The Plant Kingdom	4
OR		
BIOL 120	Plant Form and Function	4
BIOL 130	General Zoology I	4
BIOL 131	General Zoology II	4
BIOL 140	Biology of the Cell	4
BIOL 414	Genetics	5

Collateral Courses

CHEM 120, 121	General Chemistry I, II	4 ea.
CHEM 230, 231	Organic Chemistry I, II	3 ea.
CHEM 232	Experimental Organic Chemistry I	2
PHYS 193, 194	College Physics I, II	4 ea.

Select one sequence:

MATH 115	Precalculus Mathematics	3
AND		
MATH 116	Calculus A	4
OR		
MATH 122, 221	Calculus I, II	4 ea.
OR		
MATH 117, 118	Mathematics and Computer Science for the Life Sciences I, II	4, 3

Electives

Select 13 semester hours from the appropriate list to be obtained from the department 13

Biology Minor

Required Courses

BIOL 121	The Plant Kingdom	4
OR		
BIOL 120	Plant Form and Function	4
BIOL 130	General Zoology I	4
BIOL 131	General Zoology II	4
BIOL 140	Biology of the Cell	4
BIOL 414	Genetics	5

Molecular Biology

The main objectives of our undergraduate Molecular Biology major are: to educate students in greater depth in molecular studies than would be possible in our Biology program, and to prepare students in the methodological advances which have changed the study of biology in recent years. The field of molecular biology has an impact on almost every other area of study in the biological sciences, and its development has led to expanded graduate and professional programs. The Molecular Biology curriculum will provide undergraduate students with a fundamental knowledge of the principles and practices inherent in the rapidly advancing field of molecular biology.

Students who major in Molecular Biology can also enter the burgeoning biotechnology industry, well prepared to compete in the modern scientific marketplace, as most institutions carry on basic or applied research in biomedical areas today using techniques of molecular biology. Students completing this major will be well-prepared to enter professional schools of medicine, dentistry, veterinary medicine, and optometry, as well as graduate programs.

Required Courses

		Semester Hours
BIOL 120	Plant Form and Function	4
BIOL 131	General Zoology II	4
BIOL 140	Biology of the Cell	4
BIOL 350	Microbiology	4
BIOL 409	Externship in Biological Research (Cooperative Education)	4
BIOL 414	Genetics	5
BIOL 434	Introductory Molecular Biology	3
BIOL 435	Experimental Molecular Biology	2

Required Collateral Courses

CHEM	120, 121	General Chemistry I, II	4ea.
CHEM	230, 231	Organic Chemistry I, II	3ea.
CHEM	232	Experimental Organic Chemistry I	2
CHEM	470, 471	Biochemistry I, II	3ea.
CMPT	183	Foundations of Computer Science I	3
MATH	122, 221	Calculus I, II	3 ea.
PHYS	191, 192	General Physics I, II	4 ea.
OR			
PHYS	193, 194	College Physics I, II	4 ea.

Electives

Select 8 - 10 semester hours from the appropriate list to be obtained from the department ..... 8 - 10

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. The course requirements are otherwise similar to those of the Biology major.

Second Teaching Field in Biological Sciences

An approved program of at least 30 semester hours and satisfactory completion of The National Teacher Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education and the Biology Department.

Special Program Requirements

Biology Honors

- Biology Major
- Overall Grade Point Average 3.50
- Biology Grade Point Average 3.70 with no grade lower than a "B"
- Additional Courses
  BIOL 418 Biology Independent Study
  BIOL 491 Research in Biology Literature

(2 Biology faculty sponsors needed)

Courses of Instruction

BICL 404
PLANT AND ANIMAL HISTOLOGICAL TECHNIQUES 3.0
Basic techniques and skills in preparation of permanent microscopic slides of plant and animal tissue. (1 hr. lecture, 3 hrs. laboratory.)
Prerequisite: 12 semester hours of biology.

BICL 405
CELL CULTURE 3.0
Theory of and practice in working with living cells: tissue culture techniques, cell communication, differentiation, regeneration and aging in several living cell systems.
Prerequisite: All required biology courses (20 hrs.) and permission of instructor.

BICL 406
SCANNING ELECTRON MICROSCOPY 4.0
Introduction to theory and practice of scanning electron microscopy. Includes specimen preparation, scanning electron microscope operation, electron specimen interactions/imagery, and microanalysis.

BIOL 100
BIOLOGICAL SCIENCES 4.0
The study of life from molecule to organism with focus on structure and function of cells, mechanisms of heredity and change, survey of animals and plants and their interrelationships in the living world. (3 hrs. lecture, 2 hrs. laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 103
BASIC BIOLOGY I 4.0
A study of the structure and function of cells, a survey of the plant kingdom describing the anatomy, physiology and ecology of plants with emphasis on the higher plants. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 104
BASIC BIOLOGY II 4.0
Adaptation of structure to function of cells, tissues and organs of plants and animals. Physical, chemical and ecological forces affecting these. (Three hours lecture; three hours laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 107
BIOLOGY FOR SURVIVAL 3.0
Basic concepts of biology that focus on social implications of pollution, population control, radiation, drugs, pesticides, the genetic revolution, etc. For non-science majors. (3 hrs. lecture.) Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

BIOL 109
INTRODUCTORY ECOLOGY: THE LIVING WORLD 3.0
To acquaint the non-biology major with the general principles of plant and animal interactions and the adaptations of plants and animals to their habitats including the extreme habitats of desert, cave, deep sea, and the arctic. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

BIOL 110
THE BIOLOGY OF HUMAN LIFE 4.0
The biological basis to human development, birth, maturation, and aging. Not for biology major credit. (3 hrs. lecture, 3 hrs. laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 120
PLANT FORM AND FUNCTION 4.0
This course acquaints the student with the methods and tools of science. Morphology and physiology of the cell and of the plant as a whole are considered.

BIOL 121
THE PLANT KINGDOM 4.0
Survey of the plant kingdom with emphasis on evolutionary trends and economic importance. (2 hrs. lecture, 4 hrs. laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory Science Only.

BIOL 130
GENERAL ZOOLOGY I 4.0
An introduction to the animal kingdom. Phylogeny, anatomy, physiology, reproduction, development and ecology are discussed in relation to selected animal types. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 131
GENERAL ZOOLOGY II 4.0
An introduction to the animal kingdom. Phylogeny, anatomy, physiology, reproduction, development and ecology are discussed in relation to selected animal types. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: BIOL 130.

BIOL 140
BIOLOGY OF THE CELL 4.0
Form, function and evolution of cells. (3 hrs. lecture, 3 hrs. laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

BIOL 213
INTRODUCTION TO FIELD BIOLOGY 2.0
Taxonomy, ecology and conservation are stressed for a ten-day period at the New Jersey State School of Conservation in Stokes State Forest.

BIOL 215
HUMAN HEREDITY 3.0
A non-major course introducing concepts of classical heredity and modern molecular genetics, which stresses the techniques and significance of genetic knowledge and research. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

BIOL 240
MAMMALIAN ANATOMY AND PHYSIOLOGY I 3.0
Human anatomy and physiology for health education and physical education majors. Not for Biology majors. (2 hours lecture, 2 hours laboratory.)

BIOL 241
MAMMALIAN ANATOMY AND PHYSIOLOGY II 3.0
Human anatomy and physiology for health education and physical education majors. Not for Biology majors. (2 hours lecture, 2 hours laboratory.)

BIOL 243
HUMAN ANATOMY AND PHYSIOLOGY 4.0
A study of the dynamics of the human body in relation to its structure and function is based on its nutritional input. Each organ system is discussed in relation to its contribution to the whole functioning organism, as well as a basic survey of its pathologies. Primarily for ADA Certification.
Prerequisite: CHEM 270.

BIOL 244
ANATOMY AND PHYSIOLOGY OF MAMMALS I 4.0
The structure and function of the cell, tissue and organ systems-integomentary, skeletal, muscular, circulatory and respiratory. Non-majors only. (3 hours lecture, 2 hours lab.)

BIOL 245
ANATOMY AND PHYSIOLOGY OF MAMMALS II 4.0
The structure and function of the organ systems - nervous, excretory, endocrine, digestive and reproductive. (3 hours lecture, 2 hours lab.) Not for Biology majors.

BIOL 254
APPLIED MICROBIOLOGY 3.0
Microbiological concepts and techniques applicable to food and dairy processing, health and disease, water, waste and other environmental problems. (2 hours lecture, 3 hours lab.)
Prerequisites: 1 year chemistry or course in similar field.

BIOL 255
SURVEY OF MICROBIOLOGY 4.0
Microbiological concepts and techniques applicable to medical, health and environmental problems. (3 hrs. lecture, 2 hrs. lab.)
Prerequisites: 1 year of chemistry or course in similar field.

BIOL 300
ENVIRONMENTAL BIOLOGY AND RELATED CONTROVERSIAL ISSUES 3.0
Analysis of ecological problems of today: population trends and control, food production, environmental deterioration, waste disposal etc.
Prerequisite: 12 semester hours of biology.

BIOL 330
INTRODUCTION TO ANIMAL BEHAVIOR 3.0
Concepts and theories of the sensory world of animals and behavioral patterns resulting in environmental adaptations.
Prerequisites: BIOL 130, 131 and 4 additional Biology credits or permission of instructor.

BIOL 350
MICROBIOLOGY 4.0
A study of bacteria, yeast, molds and other microorganisms in relation to modern biological concepts and the welfare of man. Standard techniques employed in the laboratory. (3 hours lecture, 3 hours laboratory.)
Prerequisites: BIOL 140, CHEM 120, 121.

BIOL 370
PRINCIPLES OF ECOLOGY 3.0
To acquaint the biology majors with the general principles of ecology, population dynamics and adaptations of plants and animals to the various habitats. (2 hours lecture, 2 hours laboratory.)
Prerequisite: 1 semester botany and 2 semesters zoology.

BIOL 409
EXTERNSHIP IN BIOLOGICAL RESEARCH (COOPERATIVE EDUCATION) 1.0-4.0
Full- or part-time work in an established laboratory with a scientific investigator for the duration of the term.
Prerequisite: Approval of director of Cooperative Education and Biology Department Cooperative Education Coordinator.

BIOL 411
INTRODUCTION TO TRANSMISSION ELECTRON MICROSCOPY 4.0
Basic theory and practice of electron microscopy. Specimen preparation ultramicrotomy, microscopy, photographic preparation of final print, interpretation of results. (3 hrs. lecture, 3 hrs. laboratory.)
Prerequisites: 18 hours biology, BICL 404 and instructor's permission.

BIOL 414
GENETICS 5.0
Lecture and lab. Heredity, gene and chromosomal structure and function, gene regulation, mutation and repair, genes in populations, genetic manipulation, and applied genetics are covered. Lab exercises illustrate genetic concepts and include a semester-long project and paper. Required of all Biology majors and minors.
Prerequisites: BIOL 121, 140; CHEM 120, 121.

BIOL 417
EVOLUTIONS AND SYSTEMATICS 3.0
Causes and mechanisms of biological variation and species formation as the basis of modern systematics and evolutionary theory.
Prerequisites: BIOL 130, 131 and/or BIOL 120, 121; and BIOL 412 is recommended.

BIOL 418
BIOLOGY INDEPENDENT RESEARCH 1.0-4.0
Under the guidance of a sponsor, students will investigate individual problems of appropriate scope. A written and/or oral report as required. (Offered on demand.)
Prerequisites: 15 semester hours of biology, including BIOL 140; 3.00 GPA in Biology.

BIOL 420
ECONOMIC BOTANY 3.0
Importance of plants to the world in general and to man in particular. (Not offered every year.)
Prerequisites: BIOL 320 or 121.

BIOL 425
ELEMENTARY PLANT PHYSIOLOGY 4.0
Major physiological processes of the flowering plant: growth, metabolism, photosynthesis, respiration, water relations and mineral nutrition. (Not offered every year.)
Prerequisites: BIOL 121, 320; CHEM 231.

BIOL 426
NEW JERSEY FLORA 4.0
Field identification of mosses, liverworts, ferns, and seed plants in a variety of habitats. (Not offered every year.)
Prerequisite: BIOL 121 or course in similar field.

BIOL 430
FIELD ORNITHOLOGY 3.0
Identification and natural history of birds in a variety of habitats. Trips on a varying schedule. (Not offered every year.) (1 hr. lecture, 3 hrs. laboratory.)

BIOL 431
ENTOMOLOGY 3.0
Identification, physiology and ecology of common insect families. (Not offered every year.)
Prerequisite: BIOL 130.

BIOL 432
MEDICAL ENTOMOLOGY 3.0
The study of arthropods that are vectors of diseases afflicting man and domestic animals. (Not offered every year.)
Prerequisite: BIOL 130 or 431.

BIOL 434
INTRODUCTORY MOLECULAR BIOLOGY 3.0
This course is designed to examine the molecular biology of plant and animal cells.
Prerequisites: BIOL 350, 415, CHEM 370.

BIOL 435
EXPERIMENTAL MOLECULAR BIOLOGY 2.0
This laboratory course will introduce biology majors to the basic and important techniques of molecular biology.
Prerequisite: BIOL 434.

BIOL 439
BIOLOGY OF ANIMAL PARASITES 3.0
The basic principles of parasitism. Ecological, morphological, and physiological adaptations for parasitism. Evolution of parasites and integration with the host.
Prerequisite: 1 year of zoology and/or botany. Genetics recommended.

BIOL 440
MAMMALIAN ANATOMY AND HISTOLOGY 4.0
Functional human anatomy at the microscopic and gross level. Laboratory dissection of the cat and study of prepared histological slides. (3 hours lecture, 3 hours lab.)
Prerequisite: BIOL 131.

BIOL 442
HUMAN PHYSIOLOGY 4.0
Functions of animal organs and systems with emphasis on maintenance of homeostasis.
Prerequisite: BIOL 440 or equivalent.

BIOL 443
VERTEBRATE EMBRIOLOGY 4.0
Developmental anatomy of the vertebrates, especially amphibian, chick and human. General concepts of development and cell differentiation. (Not offered every year.)
Prerequisites: BIOL 130, 131.

BIOL 444
CELL PHYSIOLOGY 3.0
Advanced course in cell function.
Prerequisites: BIOL 442, CHEM 230, 231.

BIOL 445
IMMUNOLOGY 3.0
Cellular and humoral immunal responses, immunoglobulines, antigen-antibody reactions, immunopathology, transplantation and blood transfusion. (Not offered every year.)

BIOL 446
ENDOCRINOLOGY 3.0
Basic anatomy and physiology of the mammalian endocrine glands with special attention directed to the human endocrine glands. The interrelationships between the various endocrines including neural control and the role of these glands in maintaining the homeostasis of the body will be stressed.

BIOL 447
FUNDAMENTALS OF PHARMACOLOGY 3.0
Introduction to the study of chemicals that have biological effects, with special emphasis on those with medical importance.
Prerequisites: BIOL 442, CHEM 230, 231 or instructor's permission.

BIOL 450
MEDICAL MICROBIOLOGY 3.0
The course is designed to acquaint the Biology major with those microorganisms which cause disease, the prevention of disease, therapeutic agents to control microbial diseases and the body's natural defense mechanisms.
Prerequisite: BIOL 350 or equivalent.

BIOL 460
BIOLOGICAL OCEANOGRAPHY 3.0
Biological processes within oceans and estuaries are considered in relation to the physical environment. Field and laboratory work. (Not offered every year.)
Prerequisites: BIOL 130, 121.

BIOL 461
LIMNOLOGY 3.0
Biological and physical processes of rivers and lakes. Field work and laboratory. (Not offered every year.)

BIOL 467
BIOLOGY OF THE FISHES 4.0
Systematics, adaptations, reproduction, evolution, ecology and zoo-geography of major groups of marine fishes. At New Jersey Marine Sciences Consortium. (Not offered every year.)
Prerequisites: BIOL 131, 442.

BIOL 471
BIOMEDICAL ETHICS 2.0
Seminar course dealing with ethical dilemmas posed by advances in biomedical technology. Background readings in ethics will be followed by discussions of readings on the applications and consequences of modern biomedical research.
Prerequisites: BIOL 415 or 434.

BIOL 490
SELECTED TOPICS IN BIOLOGY 2.0-4.0
Course which will allow the advanced undergraduate student to study a single topic in depth. This course would allow the students an opportunity to integrate the principles of several areas (ecology, physiology, genetics, etc.) of biology in the study of a single topic.

BIOL 491
RESEARCH IN BIOLOGY LITERATURE 1.0
Each student will survey current biological literature pertinent to a specific problem. A comprehensive report is required. (Not offered every year.)
Prerequisites: 15 semester hours in biology, including BIOL 140; 3.00 G.P.A. in biology.

BIMS 220
INTRODUCTION TO MARINE BIOLOGY 4.0
A field and laboratory oriented course covering the characteristics of marine plants and animals. The course is designed to provide the student with experience in collecting and identifying local marine flora and fauna.

BIMS 422
BIOLOGY OF MARINE PLANKTON 2.0
A study of the marine phytoplankton and zooplankton, their collection, analysis and interpretation. Their role in the ecosystem will be stressed as will be their distribution, particularly those of the near shore and estaurine environment. Field trips will be made to coastal New Jersey. Offered at the site of the New Jersey Marine Sciences Consortium. Cross-listed as PHMS 422.

BIMS 426
MARINE ENERGY SYSTEMS 2.0
Principles of production and energy transfer in the marine environment. Spatial and temporal distribution of productivity. Productivity measurement and assessment of the roles of plants, herbivores and carnivores in marine energetics. Offered at New Jersey Marine Sciences Consortium.
Prerequisite: One year of physics, one year of organic chemistry, one year of biology, and one semester of calculus.

BIMS 431
MARINE INVERTEBRATE ZOOLOGY 4.0
A study of the invertebrates living in the marine realm with emphasis on the interrelations of these animals to their particular environment. Field work will include studies of the peagic and benthonic forms associated with estuaries and the continental shelf. Also offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisites: BIOL 130, 131.

BIMS 433
SEASHORE ORNITHOLOGY 2.0
Field identification of birds of the ocean, salt marsh, sand dunes, and adjacent land areas. Includes discussion of habits and ecology. Offered at New Jersey Marine Sciences Consortium
Prerequisite: BIOL 430.

BIMS 438
SEASHORE ENTOMOLOGY 2.0
Ecological studies of the insect fauna found in the unique habitats of the (1) intertidal zone, (2) coastal sand dunes and (3) salt marsh found along the New Jersey shoreline.
Prerequisite: BIOL 130 or 431.

BIMS 450
MARINE BOTANY 4.0
An introduction to the structure, systematics, physiology and ecology of algae and metaphyta of the marine environment. Emphasis will be placed on the flora of the estuary and tidal marsh. Biology of the associated phytoplankton will be studied. Offered at the site of the New Jersey Marine Sciences Consortium. Cross-listed as PHMS 450.
Prerequisite: BIOL 102 or instructor's permission.

BIMS 455
MARSH AND DUNE VEGETATION 2.0
A field and laboratory study of the plant communities that inhibit the sand dunes and marshes of the coastal zone of New Jersey. The diversity of the forms of plant life and their adaptations and ecological roles. The collection and identification of individual plant species. Also offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: Eight credit hours of biology including one semester of botany. A course in ecology is recommended.

BIMS 460
ADVANCED MARINE BIOLOGY 4.0
Interrelationships of marine animals and plants. Ecological response to physical and chemical parameters. Principles such as zonation, succession, ecosystem structure, and physiological response will be examined through lectures, field projects and laboratory study.

BIMS 490
FIELD METHODS IN THE MARINE SCIENCES 4.0
The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the New Jersey Marine Sciences Consortium. (2 hrs. lecture, 4 hrs. lab.)
Prerequisite: Senior standing in science.

BIMS 491
PLANKTON SAMPLING AND ANALYSIS 1.0
Sampling, identification and counting of phyto- and zooplankton. New Jersey Marine Sciences Consortium.
Prerequisites: Biology major or permission of the instructor. A specialized course for a specialized purpose.

BIMS 494
PRIMARY PRODUCTION IN THE MARINE ENVIRONMENT 1.0
Theory and techniques of primary production measurement. New Jersey Marine Sciences Consortium.
Prerequisite: 16 credits in biology or geoscience. Advanced course.



BROADCASTING, SPEECH COMMUNICATION, DANCE AND THEATRE

SCHOOL OF FINE AND PERFORMING ARTS

Chairperson: Gerald Lee Ratliff

The Department of Broadcasting, Speech Communication, Dance and Theatre prides itself on its academic and professional curricula, the exceptional quality of its faculty and the success of its graduates. Because its programs feature both liberal arts and professional training—the cultural legacy which influences all worthwhile quality education—student majors are afforded ample opportunities to participate in meaningful learning experiences and are given increasing responsibility as their training proceeds.

The Bachelor of Arts degree has four concentrations for those interested in the broadbased, academic approach to liberal arts education: broadcasting, communication studies, theatre and teacher education. Each concentration requires a successful interview for admission to the program.

The Bachelor of Fine Arts degree program has three areas for those interested in pursuing a professional performance or design career. It includes a dance major, and within the theatre major it includes an acting concentration and a design/production theatre concentration. Each of these areas requires a successful audition or portfolio review for admission to the program.

The Department of Broadcasting, Speech Communication, Dance and Theatre also requires an interview for those interested in a minor in any of the following programs of study: communication studies, dance or theatre. The dates and requirements for department admission and interviews/auditions may be obtained from the Admissions Office or by calling the Department of Broadcasting, Speech Communication, Dance and Theatre at (201) 893-4217.

Special features of the academic program include specialized internships, performance ensembles, Mainstage Theatre Series, Studio Theatre Series, Dance Repertory Company, Speech Labs and Studio Concert Series. The Department of Broadcasting, Speech Communication, Dance and Theatre is an accredited institutional member of the National Association of Schools of Theatre (NAST) and National Association of Schools of Dance (NASD). There are also three national honorary fraternities in the Department of Broadcasting, Speech Communication, Dance and Theatre: Theta Alpha Phi, Theatre; Alpha Epsilon Rho, Broadcasting; and Lambda Pi Eta, Communication Studies.

Speech and Theatre Major

(all B.A. and B.F.A. concentrations)

Required Course (Basic Core)
All majors and concentrations

			Semester Hours
*STSP	103	Voice and Speech Improvement	3
**STTH	100	Introduction to Theatrical Medium	3

*STSP, 103, Voice and Speech Improvement is taken as part of the General Education Requirement.
**Required of B.A. and B.F.A. Theatre
Concentration Requirements—B.A.
Concentration Requirements—B.F.A.
Department Electives

Speech and Theatre Major—B.A.

Concentrations Within the Program

Theatre Concentration

		Semester Hours
Theatre Courses		18
STTH 208	Playscript Interpretation	3
STTH 210	Theatre History: Classical - Elizabethan	3
STTH 211	Theatre History: Restoration - Modern	3
STTH 361	Dramatic Literature	3
STTH 410	Seminar in Drama	3
STTH 411	Dramatic Criticism	3
*STTH 100	Introduction to Theatrical Medium is taken as part of the General Education Requirement.	
Production Courses		15
STTH 110	Acting II - Non B.F.A.	3
STTH 150	Concepts of Theatrical Design	3
STTH 330	Play Direction I	3
Theatre Practicum		6
*STTH 105	Acting I - Non B.F.A. is taken as part of the General Education Requirement	
Theatre Electives		9
To be chosen from the following:		
STTH 238	Musical Comedy	3
STTH 360	Children's Theatre	3
STTH 363	Stage Combat	3
STTH 367	Mime	3
STTH 391	Playwriting	3
STTH 430	Play Direction II	3
Collateral Course Requirements		6
To be chosen from the following:		
ENGL 234	American Drama	3
ENGL 254	English Drama: Beginnings to 1642	3
ENGL 263	Art of Drama	3
ENGL 353	Shakespeare: Comedies-Histories	3
ENGL 354	Shakespeare: Tragedies-Romances	3
GNHU 285	Mythology	3
MUSC 100	Introduction to Music	3
Free Electives		22

Communication Studies Concentration

Required Courses

		Semester Hours
STSP 103	Voice and Speech Improvement	3
STSP 172	Principles of Human Communication	3
STSP 234	Public Speaking	3
STSP 260	Oral Interpretation of Literature	3
STSP 271	Interpersonal Communication I	3
STSP 334	Public Communication Techniques	3
STSP 342	Argumentation and Debate	3
STSP 374	Group Processes	3
STSP 375	Nonverbal Communication	3
STSP 438	Principles of Persuasion	3
STSP 478	Applied Communication	3

Collateral Course

A 3 semester hour business writing course, ENWR 206 Business Writing is the required collateral course.

Major Elective

Select 3 semester hours from the appropriate list to be obtained from the department.

Free Electives 34

Broadcasting Concentration

Required Courses

STBD 101 Introduction to the Broadcasting Medium 3
STBD 150 Audio Production 3
STBD 222 Television Practicum 1
STBD 240 Writing for the Broadcasting Media 3
STBD 241 Electronic Journalism 3
STBD 251 Television Production I 3
STBD 252 Television Production II 3
STBD 350 Television Production III 3
STSP 103 Voice and Speech Improvement 3

Select two:

STBD 282 Media and Culture 3
STBD 315 Political Broadcasting 3
STBD 460 Station Management 3
STBD 491 International Broadcasting 3

(Professional courses, by permission, also satisfy this requirement)

Major Electives

Select 9 semester hours from the appropriate list to be obtained from the department.

Free Electives 33

Teacher Certification

Students wishing to declare teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

In addition, the following requirements are part of the Department of Broadcasting, Speech Communication, Dance and Theatre teacher certification program.

		Semester Hours
STSP 103	Voice and Speech Improvement	3
STSP 172	Principles of Human Communication	3
STSP 201	Communication in the Classroom	1
STSP 234	Public Speaking	3
STSP 260	Oral Interpretation of Literature	3
STSP 271	Interpersonal Communication I	3
STSP 302	Practicum in Speech Improvement	3
STSP 374	Group Processes	3
STSP 407	Methods of Teaching Speech and Theatre	3
STSP 441	Group Discussion	3
STTH 100	Introduction to Theatrical Medium	3
STTH 105	Acting I - Non B.F.A.	3
STTH 150	Concepts of Theatrical Design	3
STTH 201, 202, 203	Theatre Practicum	4
STTH 210	Theatre History: Classical to Elizabethan	3
STTH 330	Play Direction I	3

Free Electives 11

Dance Major B.F.A.

STDN 150 Production Elements-Dance 2
STDN 161 Choreography I 2
STDN 205 Rhythmic Analysis 3
STDN 261 Choreography II 2
STDN 265 Dance Improvisation 2
STDN 315 Dance History: Primitive to 1850 3
STDN 316 Dance History: 1850 to Present 3
STDN 321 Beginning Labanotation 3
STDN 322 Intermediate Labanotation 3
STDN 361 Choreography III 2
STSP 103 Voice and Speech Improvement 3
*Dance Technique: Modern 24
*Dance Technique: Ballet 24
Dance Practicum *or* Dance Repertory 4
Theatre Practicum 1
BIOL 240, 241 Mammalian Anatomy and Physiology I, II ..... 3 ea.

*All dance technique classes in Modern and Ballet are by prior placement.

Theatre Collateral Course

A 3 semester hour theatre collateral course chosen from Costuming, Makeup or Lighting is required. Select from the appropriate list to be obtained from the department.

***Free Electives** 12

*No more than 4 semester hours may be in dance area.

Theatre Major—B.F.A.*

Concentrations Within the Program

*Students in the B.F.A. programs are subject to semester jury or portfolio review to determine if they should be permitted to continue in the pre-professional programs of training.

Acting Concentration

Required Courses

Speech/Movement/Production Courses

STSP 103 Voice and Speech Improvement 3
STTH 115 Acting I - B.F.A. 3
STTH 130 Acting II - B.F.A. 3
STTH 222, 223 Acting III-IV 6
STTH 322, 323 Acting V-VI 6
STTH 326 Acting for Television 3
STTH 125, 225, 325 Voice for the Performer I-II-III 9
STTH 330, 430 Play Direction I-II 6
STTH 120, 220 Movement for the Actor I-II 6
Theatre Practicum 8

Supportive Theatre Courses

STTH 100 Introduction to Theatrical Medium 3
STTH 150 Concepts of Theatrical Design 3
STTH 208 Playscript Interpretation 3
STTH 210 Theatre History: Classical to Elizabethan 3
STTH 211 Theatre History: Restoration to Modern 3
STTH 278 Stage Make-Up 3
STTH 362 Stage Dialects 3
STTH 371 History of Costumes: Primitive-Renaissance 3
OR
STTH 373 History of Costumes: Renaissance-Modern 3

Theatre Electives 6

To be chosen from the following:

STTH 238 Musical Comedy 3
STTH 320 Movement for the Actor III 3
STTH 360 Children's Theatre 3
STTH 366 Stage Technique Combat 3
STTH 367 Stage Technique: Mime 3
STTH 391 Playwriting 3
STTH 435 Dramatic Workshop 3

Free Electives 14

Design/Production Concentration

Required Courses

Semester Hours

Core Course

STSP 103 Voice and Speech Improvement 3

Major Courses 39

STTH 150 Concepts of Theatrical Design 3
STTH 160 Drawing and Rendering I: Theatre 3
STTH 260 Drawing and Rendering II: Theatre 3
STTH 234 History of Decor: Ancient-Renaissance 3
STTH 235 History of Decor: Renaissance-Post Modern 3
STTH 245 Drafting I: Theatre 3
STTH 246 Drafting II: Theatre 3
STTH 252 Scene Design I 3
STTH 345 Scene Design II 3
STTH 258 Fundamentals of Stage Lighting 3
STTH 371 History of Costumes: Primitive-Renaissance 3
STTH 373 History of Costumes: Renaissance-Modern 3
STTH 458 Advanced Lighting 3

Supportive Theatre Courses 23

STTH 201 Theatre Practicum I 8
STTH 208 Playscript Interpretation 3
STTH 210 Theatre History: Classical to Elizabethan 3
STTH 211 Theatre History: Restoration to Modern 3
STTH 320 Play Direction I 3
STTH 440 Senior Project in Design/Technical Theatre 3
OR
STTH 480 Seminar in Theatrical Conceptualization 3

Major Electives 20

To be chosen from the following:

STTH 278 Stage Makeup 3
STTH 352 Scene Painting 3
STTH 354 Repair and Maintenance of Theatrical Equipment 3
STTH 370 Costume Construction I 3
STTH 372 Costume Design I 3
STTH 403 Independent Study 1-3
STTH 450 Theatrical Sound 3
STTH 490 Internship in Theatre 4-16
ENGL 234 American Drama 3
ENGL 353 Shakespeare: Comedies-Histories 3
ENGL 354 Shakespeare: Tragedies-Romances 3
ENLT 374 Contemporary European Drama 3
ENLT 375 Modern Drama: Ibsen-O'Neill 3

***Free Electives** 12

*Not to be taken with the Broadcasting, Speech Communication, Dance and Theatre Department.

Minor Programs

Students wishing to pursue a minor in any academic program in the Department of Broadcasting, Speech Communication, Dance and Theatre and have it listed on their transcript must proceed as follows:

1. Submit an application obtained from the Department office to the chairperson requesting status as a Minor Program student in the department.
2. Schedule and complete an interview for acceptance into the minor program desired.
3. Complete the Minor Program sequence.
4. Request the Registrar, during the senior year of study, to certify on official college records the completion of a minor program of study.

Communication Studies Minor

Students who wish to pursue a minor program in the Department of Broadcasting, Speech Communication, Dance and Theatre and have this accomplishment listed on the transcript must proceed as follows:

1. Submit an application which may be obtained from the Department office to the chairperson requesting status as a Minor Program student in the Department of Broadcasting, Speech Communication, Dance and Theatre.
2. Schedule and complete an interview for acceptance into the Minor Program for Communication Studies.
3. The minimum standard for admission to the program is grade point average of 2.75.
4. Complete the Minor Program sequence.
5. Request the Registrar, during the senior year, to certify on official records your completion of minor program of study.

Semester Hours

STSP 103 Voice and Speech Improvement 3
STSP 172 Principles of Human Communication 3
STSP 234 Public Speaking 3
STSP 271 Interpersonal Communication I 3
STSP 374 Group Processes
OR
STSP 441 Group Discussion 3
STSP 438 Principles of Persuasion
OR
STSP 375 Nonverbal Communication 3

Dance Minor

STDN 150 Production Elements-Dance 2
STDN 161 Choreography I 2
STDN 254 Jazz I 2
STDN 280 Dance Practicum 1
STDN 315 Dance History: Primitive to 1850
OR
STDN 316 Dance History: 1850 to Present 3
*Dance Technique: Modern 6
Dance Technique: Ballet 6
*Technique classes are by prior placement.

Speech and Theatre Minor

STSP 103 Voice and Speech Improvement 3
STTH 100 Introduction to Theatrical Medium 3
STBD 105 Fundamentals of Broadcasting 3
STSP 172 Principles of Human Communication 3
STDN 105 Dance Appreciation 3
STTH 234 Public Speaking
OR
STTH 260 Oral Interpretation of Literature 3

Theatre Minor

Students who wish to pursue a minor program in the Department of Broadcasting, Speech Communication, Dance and Theatre and have this accomplishment listed on the transcript must proceed as follows:

1. Submit an application which may be obtained from the Department office to the chairman requesting status as a Minor Program student in the Department of Broadcasting, Speech Communication, Dance and Theatre.
2. Schedule and complete an interview for acceptance into the Minor Program for Theatre.
3. The minimum standard for admission to the program is a grade point average of 2.75.
4. Complete the Minor Program sequence.
5. Request the Registrar, during the senior year, to certify on all official records your completion of a minor program of study.

Semester Hours

STSP 103 Voice and Speech Improvement 3
STTH 100 Introduction to Theatrical Medium 3
STTH 105 Acting I - Non B.F.A. 3
STTH 150 Concepts of Theatrical Design 3
STTH 201 Theatre Practicum 1
STTH 210 Theatre History: Classical to Elizabethan
OR
STTH 211 Theatre History: Restoration to Modern 3
STTH 330 Play Direction I 3

Courses of Instruction

STBD 101
INTRODUCTION TO THE BROADCASTING MEDIUM 3.0
The development, organization and operation of radio and television in modem society; social and cultural influence of commercial and educational broadcasting.
Prerequisite: Major's only.

STBD 140
WRITING FOR THE BROADCASTING MEDIA 3.0
Writing of continuity and dramatic materials for the broadcast media, including news, commercials, and drama, and practical work in ENG reporting and TV news producing. Student must concurrently enroll in STBD 222, Television Practicum.
Prerequisite: STBD 101. Fees for 1 1/2 hours of video taping.

STBD 150
AUDIO PRODUCTION 3.0
The production of special projects, documentaries and actualities including, studio and location recording techniques, editing of audio tape, program organization and techniques of interviewing.
Prerequisite: Majors only.

STBD 222
TELEVISION PRACTICUM 1.0
Closed circuit television production; students participate in a minimum of 7 of the 14 weekly sessions. May be repeated.
Prerequisite: STBD 251 or 252 or 350.

STBD 241
ELECTRONIC JOURNALISM 3.0
Practical training in gathering, writing, and producing news for radio and television. Development of ethical electronic journalistic standards and practices as reflected by major social issues.
Prerequisites: STBD 240, 252.

STBD 245
RADIO AND TELEVISION ANNOUNCING 3.0
To develop fundamental announcing skills necessary for performance of commercials, news, and other scripted programming for radio and television. Examination, performance, and evaluation of specific skills ranging from simple commercial and public service announcements and news scripts to more complex acting and interpretative exercises.
Prerequisites: STBD 101 or STTH 122, majors only.

STBD 251
TELEVISION PRODUCTION I 3.0
The tools and techniques of television production applied to news, commercial interview and demonstration programs.
Prerequisite: STBD 101.

STBD 252
TELEVISION PRODUCTION II 3.0
Group activity in the preparation and presentation of broadcast materials including plays, speeches, interviews, announcing, newscasting, music programming and advertising; the use of educational school broadcasting.
Prerequisite: STBD 251.

STBD 282
MEDIA AND CULTURE 3.0
The ways in which the broadcast media affect the mass culture and through it the values and mores of society. Includes history of mass culture and the mechanisms by which minority cultures and innovations can affect mass culture.

STBD 315
POLITICAL BROADCASTING 3.0
An historical-critical introduction to radio and TV as related to political figures, institutions and issues; J. L. Lewis, F. D. R., McCarthy hearings, Nixon-Kennedy debates and political conventions.

STBD 350
TELEVISION PRODUCTION III 3.0
Two television productions written, produced and directed; production and direction of remote broadcasts.
Prerequisites: STBD 251, 252.

STBD 353
CHILDREN'S TELEVISION 3.0
Current children's productions and examination of research on their affect/effectiveness; work on class productions designed for children.
Prerequisite: STBD 251.

STBD 403
INDEPENDENT STUDY 1.0-3.0
Proposals must be submitted for departmental approval prior to registration for the course.

STBD 460
STATION MANAGEMENT 3.0
Economic support patterns, evolution of broadcast programming; determining community needs; on-air operations, station promotion and advertising; legal and ethical questions relating to broadcasting.
Prerequisites: STBD 251, 252.

STBD 470
SPECIAL STUDIES IN BROADCASTING 3.0
The theory and actual current practice in the business, managerial and/or legal aspects of the broadcasting industry as provided are practicing professionals in the field. This course may be repeated for credit.
Prerequisites: STBD 252, majors only instructor's permission.

STBD 480
TELEVISION PRODUCTION COMPANY 3.0
This is a senior level, advanced broadcast for Broadcasting majors who have completed all three production courses (TV I, II, and III) and have no more than 32 credits remaining before graduation. The workshop will be structured as a production company with the students serving in key production positions to produce a regularly scheduled news/magazine or informational program, and/or one or more productions from original or adapted fictional material. It will be the objective of this company to produce professional programming, suitable for broadcast on a regular or semi-regular basis. Professional television practitioners, as budget permits, will serve in certain production roles where appropriate. The course may be repeated for credit.

STBD 490
INTERNSHIP: BROADCASTING 4.0
Advanced students may pursue a portion of their major work under the supervision of a professional or a contract company.
Prerequisite: Departmental eligibility and approval required prior to registration.

STBD 495
ETHICS AND LAW OF MASS COMMUNICATION 3.0
A survey and analysis of major legal and ethical issues in broadcasting and mass communication. Open to all.

STDN 105
DANCE APPRECIATION 3.0
Course is designed to inform the student about dance as a performing art form. Focus is on developing a critical framework for viewing various styles of dance performance. The course includes lectures, discussions, selected readings, films, video tapes, and live performances. Some experiential movement sessions. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

STDN 141
DANCE TECHNIQUE: MODERN I 2.0
Introduction to modern dance; techniques and basic elements of dance. May be repeated for credit.

STDN 142
DANCE TECHNIQUE: MODERN I ADVANCED 3.0
To be taken in conjunction with STDN 141. May be repeated for credit.
Prerequisite: Permission of instructor.

STDN 150
PRODUCTION ELEMENTS-DANCE 2.0
Introduction to technical productions related to dance. Survey of terminology, application of production principles, and aesthetic potential for production.

STDN 161
CHOREOGRAPHY I 2.0
Elements and methods of dance composition.

STDN 205
RHYTHMIC ANALYSIS 3.0
All basic rhythmic structures (basic note values, meter, etc.) covered and immediately applied to movement; games; notational assignments, and choreographic studies used to create understanding of the inherent rhythm within all basic dance movement.
Prerequisites: STDN 141, majors only.

STDN 261
CHOREOGRAPHY II 2.0
Dance choreography with emphasis on small group works and solos, including form and structure.
Prerequisite: STDN 161.

STDN 265
DANCE IMPROVISATION 2.0
Basic skills and problems in dance improvisation. May be repeated for credit.

STDN 280
DANCE PRACTICUM 1.0
Practical work in dance production: dancing, assisting, directing, accompanying, working on technical or house crew. Credit only for working through the entire production period. Work must be completed and report filed prior to registration in the course. May be repeated for credit.

STDN 315
DANCE HISTORY: PRIMITIVE TO 1850 3.0
Dance as it has developed from primitive religious and ritualistic movement to the Romantic era. Emphasis upon ancient forms, courtly life, and the development of ballet. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

STDN 316
DANCE HISTORY: 1850 TO PRESENT 3.0
Study of dance in its historical context, with reference to development of ballet, modern dance, post-modernism, and jazz elements. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

STDN 321
BEGINNING LABANOTATION 3.0
The elementary principles of dance notation taught through immediate application to dance repertory. Designed for dancers to increase their understanding of movement through literacy. The course covers the fundamentals of the system: stepping, arm and leg gestures, jumping, turning, circling, floor plans and repeat signs.
Prerequisite: Permission of instructor.

STDN 322
INTERMEDIATE LABANOTATION 3.0
Advanced reading and writing of labanotation. Lessons cover parts of limbs, touch, slide, brush, torso tilts,bends and twists, kneeling, sitting, and specific parts of the torso.
Prerequisite: STDN 321.

STDN 341
DANCE TECHNIQUE: MODERN II 3.0
Further study and application of basic movement vocabulary, complex movement patterns, and style and performance focus. May be repeated for credit. By audition only.

STDN 343
DANCE TECHNIQUE: MODERN III 3.0
Continuation of STDN 341. May be repeated for credit.
Prerequisite: STDN 341.

STDN 351
DANCE TECHNIQUE: BALLET I 3.0
May be repeated for credit.
Prerequisite: Premission of instructor.

STDN 352
BALLET I ADVANCED 3.0
Further study of beginning ballet with emphasis on structural alignment, barre work and center floor exercises. May be repeated for credit.
Prerequisite: By audition only.

STDN 353
DANCE TECHNIQUE: BALLET II 3.0
Advanced technique forms with presentations by authorities from various ballet schools. May be repeated for credit.
Prerequisites: STDN 352, instructor's permission.

STDN 357
DANCE TECHNIQUE: BALLET III 3.0
Advanced ballet technique with emphasis on individualized placement. Continuation of work with intricate, technically difficult sequences. Continuation of emphasis on musicality, line, dynamics, and stylistic refinement. May be repeated for credit.
Prerequisites: STDN 351, 352, 353 or instructor's permission.

STDN 361
CHOREOGRAPHY III 2.0
Exploring and applying performance concepts and techniques used in choreographing for groups of varying sizes.
Prerequisite: STDN 261.

STDN 403
INDEPENDENT STUDY 1.0-3.0
Proposals must be submitted for departmental approval prior to registration for the course.

STDN 480
SENIOR PROJECT 3.0
Individual creative or research project under supervision of dance faculty in senior year. By arrangement.
Prerequisite: Senior status.

STDN 485
DANCE REPERTORY 1.0-8.0
Dancing, choreographing, or providing technical assistance for a repertory company. Normally involves a touring company both within and outside the state for an extended period of time. May be repeated for credit.
Prerequisite: By audition only.

STDN 490
INTERNSHIP IN DANCE 4.0-15.0
Upper class undergraduate students may pursue a major portion of a semesters work under the supervision of an experienced professional practioner as an assistant in active, successful dance activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.

STSP 050
SPEECH IMPROVEMENT: FOREIGN SPEECH PATTERNS 3.0
Voice and speech problems; comparative phonetic analysis of other languages, noting intonation and inflectional differences; evaluation of progressive speaking and reading skills. For students requiring intensive training in spoken English. Credits not applicable toward graduation. Admission by department following evaluation testing.

STSP 101
FUNDAMENTALS OF SPEECH:
COMMUNICATION REQUIREMENT 3.0
Practical opportunities in a variety of speaking situations. Emphasis on skills, development of poise and confidence and effective communication. Distracting elements in voice or articulation considered, with additional work as needed in the speech lab. Meets the General Education Requirement - Communication, Speaking/Listening.

STSP 103
VOICE AND SPEECH IMPROVEMENT 3.0
Development of voice and speech techniques and elimination of faults-procedures for improving voice and speech patterns. For speech and theater majors and minors, others by consent of the instructor.

STSP 172
PRINCIPLES OF HUMAN COMMUNICATION 3.0
A survey of the process of human communication on all levels of interaction from intrapersonal to mass communication. Introduction to and an awareness of the key principles operating during the process of communication.

STSP 201
COMMUNICATION IN THE CLASSROOM 1.0
Examine and develop communication options for enhancing teaching/learning in the classroom as they relate to student/teacher communication, communication and classroom instruction, and communication and the profession.

STSP 230
LISTENING 3.0
The development of critical, discriminative, appreciative and empathic listening skills; emphasis will be on listening theory/concept exploration, listening skill building, and experiential learning through theory application.
Prerequisite: Majors only.

STSP 234
PUBLIC SPEAKING 3.0
Preparing and delivering effective, informative, persuasive and entertaining speeches: addressing the class; entering into formal critiques and moderating one program.

STSP 250
INTERCULTURAL COMMUNICATION 3.0
Survey of cultural approaches to communication, including theory and methodology. Will examine the underlying principles and concepts of communication within individuals and across culturals to better understand effective human communication.

STSP 260
ORAL INTERPRETATION OF LITERATURE 3.0
Classroom performances of oral interpretation of various forms of literature followed by informal critiques and the development of a repertory. Meets the General Education Requirement - Electives, Creative Expression.

STSP 271
INTERPERSONAL COMMUNICATION I 3.0
Basic theory of interpersonal communication and its practical applications in friendships and intimate relationships; personal communication patterns as they affect self-perception of others; emphasis will be on the effect this process has on our interactions with others; strategies will be offered as a means of change, growth and potential.

STSP 272
INTERPERSONAL COMMUNICATION II 3.0
Current literature in the field of interpersonal communication and the relationship of the theory to communication experiences both in and out of class.
Prerequisites: STSP 271; majors only.

STSP 302
PRACTICUM IN SPEECH IMPROVEMENT 3.0
Evaluation, etiology and remedial techniques for minor voice and dictation problems common to a general school population; self motivating materials for junior high and high school. For all speech and theater majors planning to teach. Three class hours, one hour for observation and practice.
Prerequisites: STSP 103, 104, 234, 260.

STSP 334
PUBLIC COMMUNICATION TECHNIQUES 3.0
Hands on experience in MSC's television studio with focus on production elements including camera operation, directing and creativity through production of commercials, talk shows and music videos.
Prerequisites: STSP 172; majors only.

STSP 341
GROUP DISCUSSION 3.0
Principles of small group discussion with a task problem-solving orientation; leading and participating in private and public discussions; introduction to parliamentary procedure.

STSP 342
ARGUMENTATION AND DEBATE 3.0
Principles of argumentation; characteristics of propositions, definitions of terms, logical organization, evidence, research and oral techniques, structure of tournament debating; practice in argumentation and debate of current significant issues.
Prerequisites: STSP 172, 234.

STSP 363
READER'S THEATER 3.0
The close union of interpretation of literature and theater; adaptation and editing of the various genres of literature; participation in public performances of readers theater. Meets the General Education Requirement - Electives Creative Expression.
Prerequisites: STSP 260, STTH 122.

STSP 374
GROUP PROCESSES 3.0
The affective domain of a group's function: variables like cohesiveness, blocking behavior, withdrawal, leadership, as related to the development and maintenance of productive interaction.
Prerequisites: STSP 172, 271; majors only.

STSP 375
NONVERBAL COMMUNICATION 3.0
Introduces nonverbal communication theory to promote a better awareness of its dynamics and influence in the communication process; an awareness of how we reveal and define ourselves; a development of skills for encoding and decoding nonverbal messages; creating slide shows.
Prerequisites: STSP172; majors only.

STSP 388
SEMINAR IN PUBLIC RELATIONS 3.0
Provide background theory and practical experience in public relations. Writing forms and styles, project planning, and campaign strategy as they relate to public relations are emphasized.
Prerequisites: STSP 172 and STSP 271; majors only.

STSP 403
INDEPENDENT STUDY 1.0-3.0
The proposals must be submitted for departmental approval prior to registration for the course.

STSP 407
METHODS OF TEACHING SPEECH AND THEATRE 3.0
Speech education at each grade level: approaches, problems, materials, textbooks and techniques; trends in instruction integration of speech with other fields.
Prerequisites: Permission of instructor; majors only.

STSP 413
VISUAL COMMUNICATION 1.0-3.0
A variable credit course for students to experience the new area of visual communication through computer desk top publishing. Students will be responsible for designing, editing, and production of various printed material.
Prerequisites: STSP 172, 271; permission of instructor.

STSP 435
SPEECH ARTS ACTIVITY 1.0-3.0
Credit is given for supervised speech arts activity. Consent of department chairperson required. Credit by arrangement.

STSP 438
PRINCIPLES OF PERSUASION 3.0
Theory and application of persuasive principles in various fields of society with focus on communication strategies for awareness, understanding, evaluation, and change of social forces in media, education, government, business, religion, politics, relationships, and industry.
Prerequisites: STSP 172, senior standing.

STSP 441
GROUP DISCUSSION 3.0
Principles of small group discussion with a task problem-solving orientation; leading and participating in private and public discussions; introduction to parliamentary procedure.

STSP 478
APPLIED COMMUNICATION 3.0
Identification of practical applications and implications for the theories of human communication is explored with specific focus on communication careers through interviewing techniques, personal applications and implications, and career panels with communication professionals. A pragmatic approach allows a synthesis of learned communication theory and applied communication practice.
Prerequisites: STSP 172, 271; majors only; senior standing; permission of instructor.

STSP 490
INTERNSHIP: COMMUNICATION STUDIES 4.0-16.0
Upper-class undergraduate students may pursue a major portion of a semesters work under the supervision of an experienced professional practitioner as an assistant in active, successful communication activity. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration.
Prerequisite: Departmental approval.

STSP 499
HONORS: SENIOR SEMINAR 3.0
Students pursue independent projects related to their major academic and professional interests and meet for tutorial sessions on selected topics. Seminar culminates in a major project related to research, performance, production or pedagogy.
Prerequisite: Permission of the department.

STTH 100
INTRODUCTION TO THE THEATRICAL MEDIUM 3.0
All forms of theatrical literature and productions including drama, ballet, mime, opera, circus, musical comedy and mass media. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

STTH 105
ACTING I- NON B.F.A. 3.0
Basic introduction to acting for the non-major; involving exploration of one's self and experiencing inwardly; deepening the personal involvement and significance of actions; improvisation and exercises for perception, self-awareness and justification. Meets the General Education Requirement - Electives, Creative Expression.

STTH 110
ACTING II - NON B.F.A. 3.0
Extension of basic acting for the non-major; including scene study, improvisation, characterization and script analysis.
Prerequisite: STTH 105.

STTH 112
SINGING FOR THE ACTOR I 3.0
This course will develop and train the actors' voice and interpretation of songs through exercises, vocal production technique, in-class vocal assignments, and texts. The student will be expected to learn and prepare several songs over the term and be expected to be able to present them in a professional manner, i.e., with confidence, control and in a manner which best displays the actors' vocal abilities.
Prerequisite: STTH 105.

STTH 115
ACTING I - B.F.A. 3.0
Work on the actor's instrument; use of the senses, involvement with the environment and other actors; concentration, honesty and an understanding of actions, objectives and obstacles; improvisation as a step toward playing scenes; one scene and one monologue developed. B.F.A. Acting majors only.

STTH 120
MOVEMENT FOR THE ACTOR I 3.0
Basic movement for the actor in terms of development of characterization, physicality and projection of mood and attitude.

STTH 125
VOICE FOR THE PERFORMER I 3.0
The voice skills necessary for the actor. Intensive work directed toward classic and modern styles in stage diction.
Prerequisite: STSP 103, instructor's permission.

STTH 130
ACTING II - B.F.A. 3.0
Advanced work on the actor's instrument through work on scenes of comedy, serious drama and mixed genre. Interpreting the written scene in terms of action and character intention; development of listening and reacting; development of subtext through inner dialogues and images; and use of props. Four scenes of varying types developed. B.F.A. Acting majors only.
Prerequisite: STTH 115.

STTH 150
CONCEPTS OF THEATRICAL DESIGN 3.0
A general introduction to theatrical design concerned, primarily, with developing a sense of theatrical style and form. Problems of translating a dramatic text into an overall design concept, and the evolution into specific setting, lighting, or costume designs.

STTH 160
DRAWING AND RENDERING I: THEATRE 3.0
A drawing and painting course aimed at developing skills necessary for rendering stage designs on paper. Perspective drawing, basic watercolor technique, color theory, and architectural sketching are included.
Prerequisite: STTH 150.

STTH 201
THEATRE PRACTICUM I 1.0
On or off stage experience in departmental productions. May be repeated.

STTH 202
THEATRE PRACTICUM II 1.0
Continuation of STTH 201.

STTH 203
THEATRE PRACTICUM III 1.0
Continuation of STTH 202.

STTH 208
PLAY SCRIPT INTERPRETATION 3.0
An evaluation of the play script in terms of the literary, technical, and production elements essential to mounting it for performance. A consideration of both the fictional and the functional elements of playscripts.

STTH 210
THEATRE HISTORY: CLASSICAL TO ELIZABETHAN 3.0
The development of the theatre from the classical Greek through the Elizabethan period. Attention to plays, playwrights, theatre architecture, scenery, costuming, styles of acting and presentations; oral reports, lectures and demonstrations.

STTH 211
THEATRE HISTORY: RESTORATION TO MODERN 3.0
The development of the theatre from the Restoration through the Modern period. Attention on plays, playwrights, theatre architecture, scenery, costuming, styles of acting and presentations of the period; oral reports, lectures and demonstrations.

STTH 212
SINGING FOR THE ACTOR II 3.0
This course will continue the work of Singing for the Actor I to train the actors' voice through exercises and vocal production technique designed to provide flexibility and freedom to the singer; to learn to "protect" the voice from harm while maximizing its strengths and potential. The reference point is to prepare the student for the demanding realities of singing (and acting and dancing).
Prerequisites: STTH 105, 112.

STTH 220
MOVEMENT FOR THE ACTOR II 3.0
Advanced movement for the actor in terms of the relationship of movement to characterization and the need to cultivate physical and emotional relationships in body movement.

STTH 222
ACTING III - B.F.A. 3.0
Introduction to the creation and use of psycho-physical action (method of physical actions) to generate physical and emotional involvement; further development of objectives and actions, work with the senses and the body's musculature to justify and project the character through advanced scene work.
Prerequisite: STTH 115 or instructor's permission.

STTH 223
ACTING IV - B.F.A.: CHARACTERIZATION 3.0
Extending the range of characterization by modifying and controlling physical and vocal characteristics, and by studying how clothing, manners and modes of other periods affect behavior. Exercises in animal and object controls and in using adjustments application in scenes.
Prerequisite: STTH 222 or instructor's permission.

STTH 225
VOICE FOR THE PERFORMER-II 3.0
Intermediate study in the voice skills necessary for performance in a professional setting. Advanced work in voice production and vocal characterization directed toward performance styles and stage presentation.
Prerequisite: STTH 125 and instructor's permission.

STTH 234
HISTORY OF DECOR: ANCIENT-RENAISSANCE 3.0
The major architectural and decorative periods of the world and their influences and role in the theatre as applied to the designer, from ancient to Renaissance decor.

STTH 235
HISTORY OF DECOR: RENAISSANCE-POST MODERN 3.0
The major architectural and decorative periods of the world and their influences and roles in the theatre as applied to the designer from the Renaissance to Post-modern.
Prerequisite: STTH 234.

STTH 238
MUSICAL THEATRE I 3.0
Production styles, techniques and dramatic conventions used in the musical theatre in relation to direction, music, dance, and design. The student will be expected to study all areas of the musical.
Prerequisites: STTH 105 and 112.

STTH 245
DRAFTING I: THEATRE 3.0
Techniques in theatrical drafting that explore the mechanics of drafting through the solution of practical problems in floor planning, front and rear elevations; the use of different building techniques, materials and structures.
Prerequisite: STTH 150.

STTH 246
DRAFTING II: THEATRE 3.0
Advanced study in building, rigging, and stress problems related to theatre design and production. Advanced drafting techniques for theatrical designs.
Prerequisites: STTH 150, 245.

STTH 250
TECHNICAL THEATRE 3.0
An intensive study of technical theatre including the interpretation of design and technical drawings, scenic construction, rigging, and theatre organization.
Prerequisite: STTH 150 or instructor's permission.

STTH 252
SCENE DESIGN I 3.0
Interpretation or dramatic texts towards the realization of effective stage designs. Styles and principles will be explored as well as the complete process which translates visual concepts into stageworthy designs.
Prerequisites: STTH 150, 160 or instructor's permission.

STTH 258
FUNDAMENTALS OF STAGE LIGHTING 3.0
The functions of light on stage: the use of lighting equipment. Laboratory work done in the Memorial Auditorium.
Prerequisites: STTH 150, 160.

STTH 260
DRAWING AND RENDERING II: THEATRE 3.0
Advanced drawing and rendering for theatrical stage design. Includes color work and work with dye and ink.
Prerequisite: STTH 160.

STTH 278
STAGE MAKE-UP 3.0
Make-up materials and their uses; creating corrective and character makeup, mustaches and beards for a cast research or creative experience to compile a practical resource file.

STTH 320
MOVEMENT FOR THE ACTOR III 3.0
Advanced movement for the actor in terms of the relationship of movement to space and form and the need to cultivate physical and emotional relationships in body movement. Advanced exercises and assignments related to movement in playscripts and in theatrical contexts.

STTH 322
ACTING V - B.F.A.: STYLES 3.0
Scenes from plays of various periods; studying the manners and mores and theatrical conventions of each selected period in order to create a heightened reality when approaching period scene work.
Prerequisite: STTH 222, 223.

STTH 324
ACTING VI - B.F.A.: PROFESSIONAL AUDITIONS 3.0
The business side of acting; auditions, pictures and resumes, agents, and showcases. Students work on finding and preparing appropriate monologues for professional auditions.
Prerequisite: STTH 223, 322, junior or senior Theatre major.

STTH 325
VOICE FOR THE PERFORMER-III 3.0
Advanced study in the voice skills necessary for performance in a professional setting. Intensive work in voice production and vocal development necessary to develop selected performance styles and techniques.
Prerequisites: STTH 225 and instructor's permission.

STTH 326
ACTING FOR TELEVISION 3.0
An introduction to the techniques necessary to adapt theatrical acting to television production situations, both multi-camera and single camera.
Prerequisites: STTH 115 and 223.

STTH 330
PLAY DIRECTION I 3.0
Principles of direction; selection and casting; exercises in composition and movement; scenes directed for class criticism; preparation of prompt book.
Prerequisites: STTH 122, 150.

STTH 338
MUSICAL THEATRE II 3.0
This course will teach the students how to fashion a piece of theatre suitable to their musical theatre skills. It will, in so doing, explore the roles of music, lyrics, and script, and how they are integrated into one dramatic effort. It will explore the role of the singing actor, including characterization and performance skills. It will address the differences in styles between older "presentational" musicals and newer musical dramas.
Prerequisites: STTH 112, 238.

STTH 345
SCENE DESIGN II 3.0
A continuation of Stage Design I with emphasis upon specific forms of drama as well as opera and musical comedy.
Prerequisite: STTH 252.

STTH 352
SCENE PAINTING 3.0
The theory and practice of the general techniques of the scenic artist and the methods and materials used in this discipline. B.F.A. design majors only.
Prerequisites: STTH 150, 242.

STTH 360
CHILDREN'S THEATRE 3.0
Principles and techniques of children's theatre as applied in classroom, theater and speech therapy programs paralleling the mental, physical and emotional levels of children. Student participation in planning and presenting demonstrations with children.

STTH 361
DRAMATIC LITERATURE 3.0
Dramatic literature from the classical to the modern in terms of genre, theme, and performance potential; dramatic literature as it reflects its time.

STTH 362
STAGE DIALECTS 3.0
Lecture and laboratory demonstration on sound substitutions, rhythms, and inflectional patterns used in creating effective stage dialects. Performance in standard British, Cockney, Irish, Scottish, French, Italian, German, and Spanish dialects.

STTH 366
STAGE TECHNIQUE: COMBAT 3.0
Stage use of sword-play, hand-to-hand combat and combat choreography with Broadsword, Epee, Cudgel and staff among others .
Prerequisite: STTH 122.

STTH 371
HISTORY OF COSTUMES: PRIMITIVE-RENAISSANCE 3.0
The evolution of costume and the development of tailoring social, economic and political influences on silhouette and ornamentation, from the Primitive to the Renaissance.

STTH 372
COSTUME DESIGN I 3.0
A study of basic costume design for the stage, emphasizing the interpretation of dramatic texts in terms of characterization. Basic figure drawing and fabric study are included and the collaborative process which translates ideas to finished design will be explored.
Prerequisite: STTH 371.

STTH 373
HISTORY OF COSTUMES: RENAISSANCE-MODERN 3.0
The evolution of costume and the development of tailoring social, economic and political influences on silhouette and ornamentation from the Renaissance to the Modern.

STTH 391
PLAYWRITING 3.0
The creation of an original script suitable for production. The cause to effect play will be investigated as well as newer trends in theatre. Investigation of marketing possibilities, and the preparation of scripts for submission. Students should have a background in the technique and artistic aspects of the theatre.

STTH 403
INDEPENDENT STUDY 1.0-3.0
Proposals must be submitted for departmental approval prior to registration for the course.

STTH 407
INTERNSHIP: DESIGN/TECHNICAL THEATRE 4.0-12.0
Practical experience as a member of a professional, semi-professional or educational theatre on- or off-campus. Work as a technician or as an assistant to the designer or producer.
Prerequisite: Instructor's permission.

STTH 409
SUMMER THEATRE: PRODUCTION/PERFORMANCE 4.0 - 12.0
Practical experience as a member of a professional, semi-professional, or educational theatre on- or off-campus. The student works as an actor or as an assistant to the director, designer or producer.
Prerequisite: Admission by department approval.

STTH 410
SEMINAR IN DRAMA 3.0
Dramatic theory as it relates to production and performance. A series of research projects, selected by the instructor to guide students in applying contemporary principles of play production to styles of performance comprehensive and intensive study of playscripts and dramatic theories as they find expression in performance.
Prerequisite: STTH 361.

STTH 411
DRAMATIC CRITICISM 3.0
Dramatic principles of theme, content, and characterization as they relate to production and performance; evaluation and analysis of the basic ingredients of dramatic criticism as related to the critic, the director, the scenic artist and the performer.
Prerequisite: STTH 361.

STTH 430
PLAY DIRECTION II 3.0
Advanced play direction with emphasis on the director's analysis of the script and working with performers; each participant will direct a variety of scenes and a one act play.
Prerequisite: STTH 123, 330.

STTH 431
PLAY DIRECTION III 3.0
Exploration of significant styles of production. Each participant will direct scenes in various period styles. A final stylistic project performed for an audience.
Prerequisites: STTH 222, 430.

STTH 433
SHAKESPEARE WORKSHOP 3.0
Analysis and performance of scenes from Shakespearean histories, comedies, and tragedies.
Prerequisites: STTH 223, 330.

STTH 435
DRAMATIC WORKSHOP 3.0
An advanced course combining students as actors or directors engaged in research and performance of classical and contemporary styles of theatre in a "works-in-progress" atmosphere. Material will be drawn from the full spectrum of theatre.
Prerequisite: Two courses in directing and/or acting.

STTH 436
DRAMATIC WORKSHOP II 3.0
A continuation of Dramatic Workshop providing advanced research, exploration and performance for acting- directing experimentation with various modes such as readers' theatre, story theatre and environmental theatre. Problems of adaptation of plays of one period into other periods and of non-theatrical material into a theatrical form.
Prerequisite: STTH 435.

STTH 440
SENIOR PROJECT IN DESIGN/TECHNICAL THEATRE 3.0
Topics for investigation in the area of design and technical theatre.
Prerequisites: Majors only, instructor permission.

STTH 445
STAGE DESIGN III 3.0
Advanced work in design including model-making and exploration of non-proscenium forms of presentation.
Prerequisites: STTH 150, 242.

STTH 458
ADVANCED LIGHTING 3.0
Advanced lighting skills in theatre and the related areas of dance, opera and the musical comedy.
Prerequisites: STTH 345, 455.

STTH 460
ADVANCED CHILDREN'S THEATRE 3.0
Acting and directing creative abilities in students; assisting other teachers in applying dramatics, music, art and dance in presentation of various subjects.
Prerequisite: STTH 360.

STTH 480
SEMINAR IN THEATRICAL CONCEPTUALIZATION 3.0
Active reinforcement of the concept of communal effort and thought in the theatre through the creation of student awareness of current artistic and/or philosophical conflicts within the discipline. Limited to B.F.A. candidates in their senior year.

STTH 490
INTERNSHIP IN THEATRE 4.0
Upper-class undergraduate students may pursue a major portion of a semesters work under the supervision of an experienced professional practitioner as an assistant in an active, successful theatre, dance, speech or media center program. Departmental eligibility and approval must be secured by the mid-point of the semester preceding registration. Credit by arrangement.

STTH 495
THESIS (SENIOR) 3.0
Senior project in an area of student's primary field of specialization; theatre history, dramatic literature, criticism or performance theory. Requires intensive research project demonstrating the student's ability to apply the theories and principles revealed by his project to performance or production.
Prerequisites: Senior standing and permission of instructor.



BUSINESS EDUCATION AND OFFICE SYSTEMS ADMINISTRATION

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Stephen Cyrus

There are three major thrusts to the programs offered through the department: Business Education, Office Systems Administration, and Retail Merchandising and Management.

Students in the Business Education programs follow a professional sequence qualifying them for New Jersey teacher certification in a variety of business subjects upon the satisfactory completion of the program and satisfactory achievement on the Supplementary portion of the National Teachers Examination. Four Business Education program specializations are available: Accounting/General Business, Comprehensive; Distributive Education/General Business; and Secretarial/General Business. Documented work experience is required for all specializations. Individualized certification programs are also available to post-graduates who desire initial or additional certification in business education.

Students in the Office Systems Administration program develop skills and competencies that prepare them for a broad spectrum of careers in the office setting related to the areas of information processing, microcomputer applications, records management, systems development, and office administration.

Students in the Retail Merchandising and Management program develop skills and competencies that prepare them for careers as buyers, fashion coordinators, merchandisers, and retail executives. Supervised work experience is an integral part of the program.

The Office Systems Administration program and the Retail Merchandising and Management program are concentrations in Business Administration offered through the Department of Business Education and Office Systems Administration.

All programs lead to a Bachelor of Science degree and are open to high school graduates as well as those who have attended a two year college.

Teacher Education

Professional Sequence:

Teacher Education Collateral Courses:

			Semester Hours
CURR	200	Initial Field Experience	1
CURR	400	Teacher, School, and Society	3
CURR	410	Intermediate Field Experience in Education	1
READ	407	Reading: Theory and Process	3
OR			
READ	408	Reading: The Content Areas	3
CURR	409	Teaching for Critical Thinking	3
EDFD	220	Philosophical Orientation to Education	3
BSED	273	Introduction to Computers in Business	3
BSED	309	Personal Finance	3
MATH	109	Statistics	3
PSYC	101	General Psychology	3
PSYC	200	Educational Psychology	3
ECON	100	Introduction to Economics	3
Departmental Methods			Variable by Specialization

Also: Documentation of 400-800 hours of full-time work experience or completion of a cooperative education experience.

Professional Semester:

Student Teaching Package 13

(See section on Teacher Education Program)

Business Education Major

Specializations:

Accounting and General Business Education

Required Courses

			Semester Hours
BSED	101	Contemporary Business	3
BSED	306	Information Systems and Applications	3
BSED	335	Computer Applications of Office Systems	3
BEOS	320	Administrative Business Communications	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
ACCT	403	Tax Accounting	3
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Comprehensive Business Education

Required Courses

			Semester Hours
BSED	101	Contemporary Business	3
BSED	203	Production Typewriting	1
BSED	303	Advanced Stenography and Transcription	2
BSED	306	Information Systems and Applications	3
BSED	335	Computer Applications of Office Systems	3
BSED	402	Principles and Methods of Teaching Accounting	2
BEOS	207	Word Processing Applications	3
BEOS	320	Administrative Business Communications	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
ACCT	403	Tax Accounting	3
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Distributive Education and General Business Education

Required Courses

			Semester Hours
BSED	101	Contemporary Business	3
BSED	401	Principles and Methods of Teaching General Business	2
DIST	208	Salesmanship	3
DIST	249	Merchandise Information	3
DIST	307	Retail Store Merchandising and Management	3
DIST	308	Visual Merchandising	3
DIST	309	Buying for Distribution	3
DIST	348	Practicum in Distributive Education I	1
DIST	450, 451	Supervised Work Experience and Seminar I, II	2 ea.
DIST	454	Principles & Methods of Teaching Distributive Education	3
DIST	455	Curriculum Development of Distributive Education and Coordination	3
ISVC	401	Principles and Philosophy of Vocational - Technical Education	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Secretarial and General Business Education

Required Courses

			Semester Hours
BSED	101	Contemporary Business	3
BSED	203	Production Typewriting	1
BSED	303	Advanced Stenography and Transcription	2
BSED	306	Information Systems and Applications	3
BSED	335	Computer Applications of Office Systems	3
BEOS	207	Word Processing Applications	3
BEOS	320	Administrative Business Communications	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Teacher Certification

Students wishing certification must be accepted into the Teacher Education Program. They must follow the professional sequence outlined both in this department and elsewhere in the catalog.

Business Administration

Office Systems Administration Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration.

Required Courses

			Semester Hours
BSED	306	Information Systems and Applications	3
BSED	335	Computer Applications of Office Systems	3
BEOS	308	Principles of Office Management	3
BEOS	309	Word/Information Processing Management	3
BEOS	320	Administrative Business Communications	3
BEOS	321	Records Management	3
BEOS	411	Managing Automated Office Systems	3
BEOS	430	Seminar in Office Systems Administration	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	316	Human Resource Management	3
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3

Collateral Courses*

BSED	273	Introduction to Computers in Business	3
MATH	109	Statistics	3
PSYC	101	General Psychology	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

**All of these collateral courses also fulfill a General Education Requirement*

Electives Within the Major 6

Non-Business Electives 14

Retail Merchandising and Management Concentration

This is a concentration in Business Administration offered through the Department of Business Education and Office Systems Administration.

Required Courses

			Semester Hours
DIST	208	Salesmanship	3
DIST	249	Merchandise Information	3
DIST	308	Visual Merchandising	3
DIST	307	Retail Store Merchandising and Management	3
DIST	309	Buying for Distribution	3
DIST	348	Practicum in Distributive Education I	1
DIST	450, 451	Supervised Work Experience and Seminar I, II	2 ea.
DIST	482	Independent Owned and Franchised Retailer	3
DIST	483	Seminar in Retail Management	3
BSLW	261	Legal Environment of Business I	3
ACCT	201, 202	Fundamentals of Accounting I, II	3 ea.
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	316	Human Resource Management	3
MGMT	439	Business Policy	3
MKTG	340	Introduction to Marketing	3
MKTG	442	Marketing Research	3

Collateral Courses*

			Semester Hours
BSED	273	Introduction to Computers in Business	3
MATH	109	Statistics	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

**All of these collateral courses also fulfill a General Education Requirement.*

Electives Within the Major 8

Non-Business Electives 9

Courses of Instruction

BEOS 230
INTRODUCTION TO BUSINESS WORK EXPERIENCE 4.0-8.0
This is an introductory cooperative education course which integrates formal classroom study and assignments with a supervised full-time or part-time off-campus employment experience. The purpose of this course is to develop self awareness and to explore educational and occupational alternatives.
Prerequisites: Sophomore level status (45+ semester hours completed) with a 2.25 minimum grade point average.

BEOS 308
PRINCIPLES OF OFFICE MANAGEMENT 3.0
A study of the most acceptable methods and practices of office administration. Topics include organization and planning of office systems, leadership and human relations, controlling operations and processing of information. Emphasis throughout the course will be on achieving satisfactory human relations and continuous cost reduction.

BEOS 309
WORD/INFORMATION PROCESSING MANAGEMENT 3.0
An understanding of the need and effect of word processing on business productivity. Word processing systems will be investigated with emphasis on personnel, equipment needs, and cost savings.

BEOS 320
ADMINISTRATIVE BUSINESS COMMUNICATIONS 3.0
The study of communication processes using special problem applications with a theoretical and practical base. Writing proposals, business correspondence, business plans, and handling electronic messaging are covered. Emphasis is also on using presentation materials to complement interpersonal and organizational communication.

BEOS 321
RECORDS MANAGEMENT 3.0
Includes study of the criteria and methods by which records are created, stored, retrieved, retained and disposed, as well as attention to study of the managerial considerations necessary for effective selection and utilization of equipment, procedures, and personnel.

BEOS 330
OFFICE SYSTEMS ADMINISTRATION PROFESSIONAL WORK EXPERIENCE PROGRAM 4.0-8.0
This is a cooperative education course specifically for office systems administration majors. Course is designed to integrate formal classroom study and assignments with supervised full-time off-campus employment. It has as its primary goals the development of occupational competencies and pre-professional training.
Prerequisites: Junior or senior status; a 2.45 grade point average; satisfactory completion of BEOS 230 or the equivalent of 6 months of verified full-time work experience; office systems administration major declaration for one prior semester plus the completion of 6 semester hours from the office systems administration core courses.

BEOS 411
MANAGING AUTOMATED OFFICE SYSTEMS 3.0
Needed competencies for organizing and administering an automated office system will be emphasized. A systematic approach to designing implementing, controlling, and integrating electronic office systems will be stressed. Various configurations, available technology, and evaluating methods for assessing present and future systems will be investigated.
Prerequisites: BSED 306, 335, BEOS 309, 321.

BEOS 430
SEMINAR IN OFFICE SYSTEMS ADMINISTRATION 3.0
Current developments in office systems administration will be investigated by student research teams in contemporary administrative office environments. Emphasis will be on helping students develop investigative and analytical skills.
Prerequisites: BSED 306, 335; BEOS 309, 321.

BSED 101
CONTEMPORARY BUSINESS 3.0
The organization and operation of contemporary business are explored. Students study the operation of the free enterprise system, alternative economic systems, and the various functional areas of business: finance, management, production, and marketing. Meets the General Education Requirement Social Science, Topic Course.

BSED 103
BEGINNING KEYBOARDING 3.0
Beginning keyboarding is designed for those students who have had no previous keyboarding instruction. The course offers basic instruction on the alpha-numeric keyboard in learning the touch method of keyboarding, as well as in developing skill in using the keyboard of communication and information processing, e.g. preparation of basic business and personal letters, business reports, tables, and other related applications.

BSED 104
INTERMEDIATE KEYBOARDING 3.0
This course is designed for students who have had previous keyboarding instruction. Students will develop increased speed and accuracy and will apply their keyboarding skill in the production of business-related projects. The ultimate aim is to develop proficiency in keyboarding applications.
Prerequisite: BSED 103.

BSED 203
PRODUCTION TYPEWRITING 1.0
Taken in conjunction with methods of teaching typewriting. The technicalities of typewriting procedures; vocational competency in production typewriting.
Prerequisite: BSED 104.

BSED 273
INTRODUCTION TO COMPUTERS IN BUSINESS 3.0
An introduction to the use of information systems in business. Topics that will be covered include computer hardware and software, systems analysis, management information systems, data communications and application development. Students will be introduced to business software packages which will include database management, spreadsheeting and business word processing.

BSED 306
INFORMATION SYSTEMS AND APPLICATIONS 3.0
Designed to provide applications of office automation technologies from the user's perspective. Self-developmental applications involving information interchange, experiences in using technology to enhance communication effectiveness, and opportunities to create system documentation for instruction and/or training are an integral part of the course.

BSED 309
PERSONAL FINANCE 3.0
The role of the consumer in the economy is studied by emphasizing how government and business policies, laws, and practices affect the consumer and his standard of living. Government regulatory laws and regulations, government policies on the control of money and inflation and how they affect the consumers are discussed. Business and labor policies and practices are emphasized in the areas of credit, savings, and housing. Meets the General Education Requirement—Electives, Personal/Professional Issues.

BSED 310
CONSUMER FINANCE 3.0
The following areas are studied with emphasis on informing the students on how business and government policies and practices affect their standard of living: taxes, insurance, securities, and estate planning.

BSED 335
COMPUTER APPLICATIONS OF OFFICE SYSTEMS 3.0
A course designed to prepare students to make decisions in the selection and utilization of microcomputer systems and appropriate software for a business environment based on identified needs; the factors to consider in the implementation of microcomputers at different levels of an organization; and the characteristics of specific software applications used in the business environment. The course also provides students with hands-on experience with commercial software packages and additional work in the structured programming cycle, including the coding and testing of programs using the basic programming language. Meets elective within the business major requirement.
Prerequisites: BSED 273.

BSED 390
BUSINESS INDEPENDENT STUDY I 1.0-3.0
Each student, under the guidance of a faculty sponsor, conducts an in-depth study of a current problem in the business education field and presents a written report of the findings. Admission by application submitted to the department chairperson.

BSED 391
BUSINESS INDEPENDENT STUDY II 1.0-3.0
Each student, under the guidance of a faculty sponsor, is to conduct an in-depth study of a current problem in the business field. A written report of the findings of the study is to be presented. Admission is by application submitted to the department chairperson.

BSED 401
PRINCIPLES AND METHODS OF TEACHING GENERAL BUSINESS 2.0
The methodology of teaching social business subjects, including general business, business law and consumer education. Content, lesson planning, visual aids and evaluation procedures.
Prerequisites: 12 credits of general business courses.

BSED 402
PRINCIPLES AND METHODS OF TEACHING ACCOUNTING 2.0
The history and development of accounting instruction and materials, aims and objectives in light of current trends. Textbook selection, lesson planning, classroom procedures, tests and measurements, audio-visual and other teaching aids. A test of subject matter competency is required.
Prerequisite: 9 semester hours of accounting.

BSED 403
PRINCIPLES AND METHODS OF TEACHING STENOGRAPHY 1.0
Complements BSED 303 and is designed to prepare secretarial teachers for the teaching of stenography and transcription. Comprehensive coverage of the material and methods for teaching stenography.
Prerequisite: BSED 206.

BSED 404
PRINCIPLES AND METHODS OF TEACHING KEYBOARDING/TYPEWRITING 1.0
Complements BSED 204 and deals with the techniques of teaching beginning and advanced typewriting. Emphasis on the psychology of skill development.
Prerequisite: BSED 203 or equivalent.

BSED 409
BUSINESS EDUCATION PROFESSIONAL SEMINAR 1.0
Provides a forum for dialogue on problems and concerns in achieving effectiveness on the student teaching experience and subsequent related business education teaching.
Prerequisite: BSED 401.

BSED 420
FIELD STUDIES FOR BUSINESS EDUCATION 2.0
Observation of many facets of business operations in representative firms. Evaluation of organization, procedures and equipment of each company visited.

BSED 449
SUPERVISED BUSINESS WORK EXPERIENCE 2.0
An opportunity to work full-time in a business position for ten weeks of the summer under college supervision. Weekly seminar to discuss problems related to the work experience program.

DIST 208
SALESMANSHIP 3.0
The role of personal selling in our economy and the diversity of sales positions are explored. Theories and concepts derived from the behavioral sciences are presented to develop an understanding of consumer behavior and basic selling techniques. Students apply their newly acquired selling skills in mock sales demonstrations.

DIST 249
MERCHANDISE INFORMATION 3.0
Textile and non-textile information background and selling information needed in retailing. Standards for determining quality of products and a knowledge of how to care for them. Manufacturing processes of various products.

DIST 307
RETAIL STORE MERCHANDISING AND MANAGEMENT 3.0
Problems involved in the successful operation of a retail organization, preparation of the store for business, movement of merchandise from resource to store, preparation of merchandise for sale, movement of goods to the selling floor and to the customer.

DIST 308
VISUAL MERCHANDISING 3.0
The uses of color, line, and design principles to present and sell merchandise are explored. Students study and use basic visual merchandising techniques, tools, and equipment to design and build merchandise displays.

DIST 309
BUYING FOR DISTRIBUTION 3.0
Functions of the merchandising division, the buyer and merchandising problems. Also customer demand analysis, comparison shopping, planning the buyer's budget. Buying fashions, staples for independent, chain and resident buying offices, and foreign buying.

DIST 348
PRACTICUM IN RETAILING/DISTRIBUTIVE EDUCATION 1.0
Students participate in the ongoing activities of the college's DECA chapter; observe current retail practices during prearranged field trips to stores, fashion houses, and distribution centers; and interview local retail executives and distributive education teachers.

DIST 440
INTERNATIONAL RETAILING 3.0
A study of international retailing covering such areas as: (1) retail institutions modi-operandi variations from country to country, (2) effects of economic growth, cultural, legal-political and technological environment, (3) the West versus less developed countries in Asia, Africa, Latin America and the emerging free Eastern Europe, (4) know-how of retailing: Business concepts, operating policies, managerial dimensions, (5) foreign direct investments in retailing.

DIST 450
SUPERVISED WORK EXPERIENCE AND SEMINAR I 2.0
Full-time paid work experience in a cooperating department, mass merchandise (discount) specialty or limited-price variety store. Weekly evening seminar on store activities and the development of executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer, following sophomore and junior years.
Prerequisites: DIST 208, MKTG 340, majors only.

DIST 451
SUPERVISED WORK EXPERIENCE AND SEMINAR II 2.0
Full-time paid work experience in a cooperating department, mass merchandise (discount) speciality or limited price variety store. Weekly evening seminar on store activities and the development executive abilities. Trainees submit regular progress reports of the ten to twelve week program. Taken in the summer following sophomore and junior years.
Prerequisites: DIST 208, MKTG 340.

DIST 454
PRINCIPLES AND METHODS OF TEACHING DISTRIBUTIVE EDUCATION AND COORDINATION 3.0
Federal legislation as it relates to the program coordinator's duties; methods of teaching store subjects; lecture and demonstrations in teaching forms, reports and manuals; planning the lesson; human relations for store personnel; visual aids; textbook evaluation; trade journal use and the DE club as a teaching device.
Prerequisite: DIST 455.

DIST 455
CURRICULUM DEVELOPMENT OF DISTRIBUTIVE EDUCATION 3.0
Objectives of distributive education; organizing, administering, planning and supervising a complete cooperative program. Organization of vocational education on the federal, state and local levels; developing vocational competencies in curriculum; evaluation of curriculum; surveys of community and student needs; physical equipment requirements; advisory committees; and the use of public relations and extension programs.

DIST 456
HONORS PROGRAM-EXECUTIVE RETAIL TRAINING EXPERIENCE I 4.0
June through August work experience executive training honors program in retail merchandising with weekly class sessions, visitation to the stores. Course covers the division of a store. Student obtains experience in many departments studying the skills of the supervisor.
Prerequisites: DIST 450 and 3.00 cumulative average.

DIST 457
HONORS PROGRAM-EXECUTIVE RETAIL TRAINING EXPERIENCE II 4.0
September through January work experience executive training honors program in retail merchandising with weekly class sessions, visitation to the stores. Course covers the division of a store. Student obtains experience in many departments studying the skills of the supervisor.
Prerequisites: DIST 450 and 3.00 cumulative average.

DIST 482
THE INDEPENDENT-OWNED AND FRANCHISED RETAILER 3.0
The principles and problems related to the independent and franchised retailer are discussed in theoretical and practical perspective. Lecture, research and case problems will integrate all steps from starting the business to evaluating the problems related to the business.
Prerequisites: Retail majors only; DIST 307 (retail store) and 309 (buying).

DIST 483
SEMINAR IN RETAIL MERCHANDISING AND MANAGEMENT 3.0
Advanced problems in retail merchandising are covered. Lectures, research, visiting experts and case problems will integrate all previous courses taught. Strong emphasis will be placed on fashion and the computer in today's retail scene.
Prerequisites: DIST 307, 309; Retail majors only.



CHEMISTRY AND BIOCHEMISTRY

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Chairperson: Roland R. Flynn

The Chemistry and Biochemistry Department offers two majors leading to the degree of Bachelor of Science, Chemistry and Biochemistry. A student who chooses the chemistry major can prepare for graduate study in chemistry or biochemistry, professional employment, professional education in fields related to science, or teacher certification. The courses meet the undergraduate criteria established by the American Chemical Society (ACS). The chemistry major is included in the ACS list of approved programs. The student can complete ACS requirements and be certified to the Society upon graduation.

The student who chooses the biochemistry major will emerge with a strong background in the basic sciences and mathematics as well as biochemistry and will qualify for graduate study in biochemistry or professional employment. With appropriate elective course selections, students in either major can satisfy the requirements for pre-health professional programs (pre-medical, pre-dental or pre-chiropractic).

The curriculum is designed for students who have had high school chemistry, biology and physics, as well as four years of high school mathematics.

The department sponsors a challenging honors program for chemistry majors with outstanding academic records (at least 3.70 grade point average), an undergraduate research program, and offers cooperative education work experiences. Those interested should see the department chairperson for information.

Chemistry Major

Required Courses

			Semester Hours
CHEM	120, 121	General Chemistry I, II	8
CHEM	230, 231	Organic Chemistry, II	6
CHEM	232, 233	Experimental Organic Chemistry I, II	4
CHEM	310	Analytical Chemistry	5
CHEM	311	Instrumental Analysis	4
CHEM	340, 341	Physical Chemistry I, II	6
CHEM	343	Experimental Physical Chemistry	2
CHEM	495	The Chemical Literature	1

Collateral Courses

Two Mathematics courses:

MATH	122, 221	Calculus I, II	8

Two Physics courses:

PHYS	191, 192	General Physics I, II	8

Electives (Major) 6

Select 6 semester hours from the appropriate list to be obtained from the department.

Chemistry Minor

Required Courses

			Semester Hours
CHEM	120, 121	General Chemistry I, II	8
CHEM	230, 231	Organic Chemistry I, II	6
CHEM	232, 233	Experimental Organic Chemistry I, II	4

Select one set:

CHEM	310	Analytical Chemistry	5
CHEM	340, 343	Physical Chemistry I, and Experimental Physical Chemistry	5
CHEM	423, 422	Advanced Inorganic Chemistry and Experimental Inorganic Chemistry	6
OR			
CHEM	470, 472	Biochemistry I, and Experimental Biochemistry	5

Biochemistry Major

Required Courses

			Semester Hours
CHEM	120, 121	General Chemistry I, II	8
CHEM	230, 231	Organic Chemistry I, II	6
CHEM	232, 233	Experimental Organic Chemistry I, II	4
CHEM	310	Analytical Chemistry	5
OR			
CHEM	311	Instrumental Analysis	4
CHEM	340	Physical Chemistry I	3
CHEM	341	Physical Chemistry II	3
CHEM	470	Biochemistry I	3
CHEM	471	Biochemistry II	3
CHEM	472	Experimental Biochemistry	2
CHEM	473	Instrumental Biochemistry Laboratory	2
CHEM	495	The Chemical Literature	1

Collateral Courses

Four Biology Courses:

BIOL	140	Cell Biology	4
BIOL	350	Microbiology	4
BIOL	414	Genetics	5
BIOL	495	Molecular Biology	3

Two Mathematics Courses:

MATH	122	Calculus I	4
MATH	221	Calculus II	4

Two Physics Courses:

PHYS	191	General Physics I	4
PHYS	192	General Physics II	4

Special Program Requirements

	Semester Hours
B.S. in Chemistry with American Chemical Society Certification	10

In addition to taking the course requirements in the chemistry major program as detailed previously, a student who wishes to fulfill the minimum requirements for professional training of the American Chemical Society should elect the following courses:

1. One of the following courses:*
   - CHEM 410 Advanced Analytical Chemistry 3
   - CHEM 430 Advanced Organic Chemistry 3
   - CHEM 440 Advanced Physical Chemistry 3
2. CHEM 423 Advanced Inorganic Chemistry 3
3. One of the following:
   - CHEM 498 Senior Laboratory 3
   - CHEM 499 Undergraduate Research ..... (minimum) 3

*Courses used to fulfill the elective requirement C for the chemistry major cannot also be used to fulfill requirement #1 for ACS Certification. This restriction does not apply to ACS Certification requirements 2 and 3.

The learning of certain other skills may be essential in an undergraduate chemistry program. This decision must be made by the student and his advisor. Included in this group are:

Foreign Language: a reading knowledge of German, Russian or French.

Mathematics: Linear algebra.

Computer Science: programming ability in BASIC and FORTRAN.

Honors Program in Chemistry

Chemistry majors can apply for admission to the honors program in chemistry during their sophomore or junior years. Students accepted into the program will be required to take (in addition to the regular chemistry major) the following courses:

			Semester Hours
CHEM	491	Honors Seminar in Chemistry	2
CHEM	492	Honors Thesis in Chemistry	2

Interested students should contact the department chairperson.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Second Teaching Field in Physical Science

An approved program of at least 30 semester hours and satisfactory completion of The National Teacher Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education and the Chemistry and Biochemistry Department.

Courses of Instruction

CHEM 100
INTRODUCTORY CHEMISTRY 4.0
An introductory lecture and laboratory survey course in modern chemistry for non-science majors. Meets the General Education Requirement - Natural/ Physical Science, Laboratory or Non-laboratory Science.

CHEM 102
OUR MATERIAL WORLD 3.0
An introductory course for non-science majors which emphasizes a chemical understanding of substances in our environment. Topics include plastics, pesticides, food additives, fuels, drugs, water and air pollutants, nuclear energy and modern materials. Meets the General Education Requirement—Natural/ Physical Science, Non-laboratory Science only.

CHEM 107
COLLEGE CHEMISTRY I 2.0
Introductory chemistry course for non-science majors. Fundamentals of inorganic chemistry.

CHEM 108
COLLEGE CHEMISTRY II 2.0
Introductory chemistry course for non-science majors. Fundamentals of organic and biochemistry.
Prerequisite: CHEM 107.

CHEM 109
COLLEGE CHEMISTRY LABORATORY I 1.0
Laboratory work to reinforce basic concepts of inorganic chemistry. Concurrent with CHEM 107.

CHEM 110
COLLEGE CHEMISTRY LABORATORY II 1.0
Laboratory work to reinforce basic concepts of organic chemistry and biochemistry. Concurrent with CHEM 108.
Prerequisite: CHEM 109.

CHEM 111
ELEMENTS OF CHEMISTRY I 3.0
Basic concepts of general chemistry for non-science majors. This course goes into greater depth then CHEM 107 and is required for Foods and Nutrition majors.

CHEM 112
ELEMENTS OF CHEMISTRY II 3.0
A study of human biochemistry with emphasis on biomolecules, metabolism, and bioenergetics.
Prerequisite: CHEM 111.

CHEM 120
GENERAL CHEMISTRY I 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to atomic and molecular structure, bonding, stoichiometry, states of matter, solutions, and selected topics in descriptive inorganic chemistry. Laboratory stresses techniques and data treatment and their use in examining chemical systems. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: Instructor's permission or previous chemistry course.

CHEM 121
GENERAL CHEMISTRY II 4.0
Introductory lecture and laboratory course for science majors, prerequisite for all advanced chemistry courses. Introduction to thermochemistry, kinetics; general acid base, precipitation, redox equilibria, electrochemistry and selected topics in descriptive inorganic chemistry. Laboratory stresses techniques and data treatment and their use in examining chemical systems.
Prerequisite: CHEM 120.

CHEM 130
FUNDAMENTALS OF ORGANIC CHEMISTRY 4.0
Survey of organic chemistry covering all major classes, nomenclature, and characteristic class reactions. (3 hours lecture, 2 hours laboratory.)
Prerequisite: CHEM 107 or CHEM 111 or equivalent course.

CHEM 195
PROBLEM SOLVING-GENERAL CHEMISTRY 1.0
Course designed to help students in application of mathematics in chemistry with emphasis on individual needs.

CHEM 230
ORGANIC CHEMISTRY I 3.0
Structure and bonding in organic compounds: nomenclature, reactions, properties, and aromatic compounds: stereochemistry; structure analysis by IR, NMR, UV, and MS; introduction to molecular orbital theory.
Prerequisite: CHEM 121.

CHEM 231
ORGANIC CHEMISTRY II 3.0
Nomenclature, reactions, properties, and synthesis of ethers, epoxides, alcohols, amines, and carbonyl compounds; carbohydrates; amino acids, peptides and proteins; pericyclic reactions; synthetic polymers.
Prerequisite: CHEM 230.

CHEM 232
EXPERIMENTAL ORGANIC CHEMISTRY I 2.0
A laboratory course to be taken concurrently with CHEM 230. Basic techniques for the separation. Analysis and synthesis of organic compounds: recrystallization, distillation, extraction, GC, HPLC, TLC, GC/MS, IR, H/ C13-NMR, chemical safety methods and regulations.
Prerequisite: CHEM 121.
Corequisite: CHEM 230.

CHEM 233
EXPERIMENTAL ORGANIC CHEMISTRY II 2.0
A laboratory course to be taken concurrently with CHEM 231 and after completion of CHEM 232. Basic techniques for organic synthesis, mechanistic studies, separation and analysis, and chemical safety: multistep syntheses, spectral data-base searching, phase-transfer catalysis, anhydrous procedures, analysis of unknowns by wet-chemical and spectral methods.
Prerequisite: CHEM 232.
Corequisite: CHEM 231.

CHEM 270
FUNDAMENTALS OF BIOCHEMISTRY 5.0
Structure and function of the biomolecules and the metabolic interrelationships in the cell primarily for Foods and Nutrition majors.
Prerequisite: CHEM 130 or equivalent.

CHEM 310
ANALYTICAL CHEMISTRY 5.0
Introduction to concepts of classical analytical chemistry including evaluation of data and apparatus, theory and application of volumetric and gravimetric methods and redox equilibrium, and introduction to electrical methods.
Prerequisites: CHEM 231, 233.

CHEM 311
INSTRUMENTAL ANALYSIS 4.0
Introduction to application of instrumental methods of analytical chemistry. Instrument techniques studied will include spectrophotometry, electroanalytical chemistry, chromatography, nuclear magnetic resonance and mass spectrometry. Theory and application will be examined in lecture and laboratory.
Prerequisites: CHEM 310, 340.

CHEM 340
PHYSICAL CHEMISTRY I 3.0
Thermodynamics, homogeneous and heterogeneous equilibria, gases, electrochemistry, solutions, colligative properties.
Prerequisites: CHEM 231; PHYS 192; MATH 222.

CHEM 341
PHYSICAL CHEMISTRY II 3.0
Kinetics, photochemistry, molecular physical chemistry.
Prerequisites: CHEM 340, PHYS 192, MATH 222.

CHEM 343
EXPERIMENTAL PHYSICAL CHEMISTRY 2.0
A laboratory course to be taken concurrently with CHEM 341. Application and experience with experimental techniques of physical chemistry. Students will perform experiments in calorimetry, measurement of thermodynamic variables, electro-chemical phenomena and kinetics. Analysis of experimental data, statistics and applications of microcomputers will be included.
Prerequisites: CHEM 231, 340, MATH 222, PHYS 192.
Corequisite: CHEM 341.

CHEM 422
EXPERIMENTAL INORGANIC CHEMISTRY 3.0
Practical experience utilizing a broad selection of modern techniques for the synthesis and characterization of inorganic compounds.
Prerequisite: CHEM 340.

CHEM 423
ADVANCED INORGANIC CHEMISTRY 3.0
Physical basis of inorganic structure and reactivity. Electronic structure of atoms, ionic and covalent bonding, acid/base chemistry, the chemistry of aqueous and nonaqueous solutions, coordination chemistry and chemical periodicity.
Prerequisite: CHEM 340.

CHEM 430
ADVANCED ORGANIC CHEMISTRY 3.0
Consideration of structural and electronic theories which form the basis of organic chemistry.
Prerequisite: CHEM 231.

CHEM 470
BIOCHEMISTRY I 3.0
Organization of the living cell; structure, function and chemistry of proteins, carbohydrates and lipids; bioenergetics and oxidation.
Prerequisite: CHEM 231.

CHEM 471
BIOCHEMISTRY II 3.0
The second semester of a two semester course in biochemistry. The course continues the coverage of the chemistry of proteins, carbohydrates, lipids, and nucleic acids, and their role in cellular function and processes. Topics such as the chemistry of hormones, recombinant DNA, mechanisms of enzyme action, protein synthesis, immunoglobulins and membranes are included.
Prerequisite: CHEM 470.

CHEM 472
EXPERIMENTAL BIOCHEMISTRY 2.0
Laboratory studies of carbohydrates, lipids, and proteins, enzyme action, enzyme purification, electrophoresis, biochemical applications of spectroscopy.
Prerequisites: CHEM 231, 232.
Corequisite: CHEM 470.

CHEM 473
INSTRUMENTAL BIOCHEMISTRY LABORATORY 2.0
A second semester biochemistry laboratory course which emphasizes modern instrumental techniques in use in the field of biochemistry. Experiments will include use of uvvis spectrophotometer for enzyme kinetics, ultracentrifugation, liquid scintillation counting, fluorescence spectrophotometry, electrophoresis, and high performance liquid chromatography.
Prerequisites: CHEM 470, 472.

CHEM 490
SELECTED TOPICS IN CHEMISTRY 2.0-3.0
In-depth study of a modern aspect of chemistry.
Prerequisite: CHEM 231, instructor's permission.

CHEM 491
HONORS SEMINAR IN CHEMISTRY 2.0
Seminars and discussions on selected areas in chemistry under faculty guidance for students enrolled in the honors program in chemistry.
Prerequisites: Admission to the honors program in chemistry or permission of the chemistry honors committee.

CHEM 492
HONORS THESIS IN CHEMISTRY 2.0
Preparation and oral presentation of a comprehensive written thesis in chemistry under guidance of a faculty mentor for completion of the honors program in chemistry.
Prerequisite: CHEM 491.

CHEM 495
THE CHEMICAL LITERATURE 1.0-2.0
The chemical literature and techniques of extracting information from it. Full participation in chemistry department's seminar program is required.
Prerequisites: CHEM 230 or equivalent course; instructor's permission.
Corequisite: CHEM 231.

CHEM 498
SENIOR LABORATORY 3.0
Multi-disciplinary laboratory study of the synthesis, separation, and characterization of chemical compounds.
Prerequisites: CHEM 311, 341, 343.

CHEM 499
UNDERGRADUATE RESEARCH 1.0-3.0
Laboratory work on a specific problem in chemistry under guidance of a faculty sponsor.
Prerequisite: 27 hours in chemistry and permission of instructor.

CLASSICS

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES
Chairperson: Timothy Renner

Classics encompasses the language, literature, philosophy, history, art, religion, and daily life of the ancient Mediterranean world as seen through texts and artifacts. The different branches of classical studies have important contributions to make to the education of students and to the way contemporary culture views itself. The study of Latin and Greek, which have contributed so much to the development of modern European languages, fosters a sense of how language works and demonstrably hones the verbal skills of the English speaker. Classical literature and philosophy, even when studied in translation, provide exemplary opportunities to examine the great issues of human behavior and ethics which form the core of the humanities. The arts in the Greco-Roman world are both seminal for the later Western tradition and of great intrinsic significance as part of their own culture.

Classical studies are an excellent foundation for a wide variety of careers, including law, business, medicine, journalism, diplomacy, teaching and many others. The department offers three major programs leading to the Bachelor of Arts degree: Classics, a broad major in ancient civilization; Latin, which emphasizes literature in the original language and includes work in Greek; and Latin (Teacher Education), which leads to teacher certification in New Jersey. Minors in Classics, Latin, Greek, and (with the cooperation of other departments) archaeology are also available. Students going on to graduate school in classics may need to take additional work in the languages and should consult the department about this.

Classics Major

Required Courses

	Semester Hours
GNHU 281 Greek Civilization	3
GNHU 282 Roman Civilization	3

Electives (Major)

A. Select 5 courses from Latin (LATN) and Greek (GREK), including at least one course at the 200 level or above* 15
B. Select 12 semester hours (including at least two classical studies topics courses) from the appropriate list to be obtained from the department 12

Total Semester Hours: 33

Latin Major

Required Courses

	Semester Hours
GREK 101,112 Beginning Greek I, II	6

6 Latin language and literature courses at the 200 level or above, including at least two of the following: LATN 201 Latin Literature of the Republic, LATN 202 Latin Literature of the Golden Age, LATN 203 Latin Literature of the Silver Age* 18

** Latin courses at the 200 level and above are taught on a four-year cycle.*

Electives (Major)

Select 3 courses from departmental list. GNHU 281 Greek Civilization, GNHU 282 Roman Civilization, and other GNHU courses dealing with ancient history, archaeology, and classical civilization are especially recommended 9

Total Semester Hours: 33

Latin Major
(Teacher Education)

Required Courses

6 Latin language and literature courses at the 200 level or above, including at least two of the following: LATN 201 Latin Literature of the Republic, LATN 202 Latin Literature of the Golden Age, LATN 203 Latin Literature of the Silver Age* 18
LATN 419 Methods of Teaching Latin 3
**Latin courses at the 200 level and above are taught on a four-year cycle.*

Electives (Major)

Select 4 courses from departmental list (GREK 101, 112 Beginning Greek I, II; GNHU 281 Greek Civilization; and GNHU 282 Roman Civilization are especially recommended) 12

Total Semester Hours: 33

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Second Teaching Field in Latin

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers' Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

Latin Minor

Students will take 18 semester hours in Latin language and literature (LATN), to be chosen in consultation with a faculty advisor from the department.

Greek Minor

Students will take 18 semester hours in Greek language and literature (GREK), to be chosen in consultation with a faculty advisor from the department.

Classics Minor

Students will take 18 semester hours in the department. A list of recommended courses may be obtained from the department.

Courses of Instruction

Classical Civilization and Humanities
(All courses taught in English)

GNHU 181
INTRODUCTION TO CLASSICAL ARCHAEOLOGY 3.0
The science of evaluating Greco-Roman and closely related cultures through observation and analysis of their physical remains. Problems and methods of dating artifacts and sites. Building materials, types, and decorations. Field trip in addition to illustrated lectures and discussions. Meets the General Education Requirement - Social Science, Topic Course.

GNHU 182
ENGLISH VOCABULARY: CLASSICAL ROOTS 3.0
Systematic development of the student's knowledge of English vocabulary through study of the most important Greek and Latin roots, prefixes, suffixes, and other elements and the ways in which they are used to form works in English.

GNHU 281
GREEK CIVILIZATION 3.0
The political, social, economic, and cultural history of the Greek world from the Bronze Age to the Roman conquest as seen through literary, documentary and archaeological courses. (Also listed under History as HIST 281). Meets the General Education Requirement - Social Science, American/European History.

GNHU 282
ROMAN CIVILIZATION 3.0
The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary, and archaeological sources. (Also listed under History as HIST 282.)
Meets the General Education Requirement—Social Science, American/European History.

GNHU 285
MYTHOLOGY 3.0
The nature and interpretation of Mythology, primarily as seen through the myths of Greece and Rome. Selected comparative study of myths of the Near East, Iran, India and other cultures. Meets the General Education Requirement - Humanities, General Humanities.

GNHU 351
THE CITY IN ANTIQUITY 3.0
Cities and city-based culture in the Greek and Roman world seen through the evidence of archaeology, literary sources, and contemporary documents such as inscriptions. Town planning, economic life, social groups, and population patterns in selected ancient cities.

GNHU 375
STUDY ABROAD 3.0
Approved study-travel program at selected universities, classical sites, museums. (Also listed as LATN 375.) Credit by evaluation.

GNHU 381
AFRICA IN CLASSICAL ANTIQUITY 3.0
The importance of Africa in the Greco-Roman world: economic, intellectual, political, and artistic contributions; Blacks and ancient institutions: army, theatre, sport, government, slavery; ancient attitudes toward race; famous Africans of Antiquity. Meets the Multicultural Awareness Requirement.

GNHU 383
WOMEN IN ANTIQUITY 3.0
Women in the ancient world and their contributions to history, literature, philosophy and the arts. Emphasis on Greco-Roman Civilization, with comparative study of other ancient cultures. Meets the Multicultural Awareness Requirement.

GNHU 384
INTRODUCTION TO ROMAN LAW 3.0
The role of law in Roman history and society. Social structure and Family Law. The law and slavery. Property, contracts, and delicts. Legal forms, legal fictions, and the response of law to new conditions. Roman law in the Medieval and Modern periods.

GNHU 385
GREEK TRAGEDY 3.0
Selected plays of Aeschylus, Sophocles and Euripides read in English translation; origins of Greek drama, religion and myth in tragedy, the tragic hero, stage production, influence on modern literature.

GNHU 396
ANCIENT HISTORIANS 3.0
Selected passages from Herodotus, Thucydides, Xenophon, Polybius, Cassius Dio, Livy and Tacitus for critical analysis; assessing authenticity and objectivity while discussing the art of historiography.

GNHU 452
AUGUSTINE 3.0
Selection from Confessions, City of God and the letters; intellectual development and philosophical and theological speculations of Augustine in the framework of the late Roman Empire.

GNHU 454
LUCRETIUS AND ANCIENT SCIENCE 3.0
Reading of De Rerum Natura with study and discussion of the relation of science and philosophy in antiquity; Greek schools of thought and Roman interpretation of Hellenistic ideas.

GNHU 470
SEMINAR IN CLASSICAL HUMANITIES 3.0
Topic to be selected according to faculty and student interest and developed through an interdisciplinary approach.
Prerequisite: Permission of department.

Greek

GREK 101
BEGINNING GREEK I 3.0
The fundamentals of ancient Greek grammar. Reading of simple texts. Meets the General Education Requirement - Foreign Language.

GREK 112
BEGINNING GREEK II 3.0
The continuation of beginning Greek I. The fundamentals of grammar and reading of selected texts. Meets the General Education Requirement - Foreign Language.
Prerequisite: GREK 101 or equivalent.

GREK 121
INTERMEDIATE GREEK I 3.0
Review of grammar. Selected readings from Greek prose and poetry. Meets the General Education Requirement - Foreign Language.
Prerequisite: GREK 112 or equivalent.

GREK 132
INTERMEDIATE GREEK II 3.0
Review of grammar. Selected readings from Greek prose and poetry. Meets the General Education Requirement - Foreign Language.
Prerequisite: GREK 121 or equivalent.

GREK 261
GREEK NEW TESTAMENT 3.0
Selected readings from the New Testament with attention to historical context and to the nature and development of Koine Greek.
Prerequisite: GREK 132 or equivalent.

GREK 262
GREEK EPIC POETRY 3.0
Representative selections from the Iliad and Odyssey. Homer as an oral poet.
Prerequisite: GREK 132 or equivalent.

GREK 310
GREEK COMPOSITION 3.0
The finer points of style and grammar and an ability to handle the Greek idiom, as much as possible, in a non-translation situation; readings of selected Greek literary and non-literary models.
Prerequisite: Permission of instructor.

GREK 351
ATTIC ORATORS 3.0
Representative works of Lysias, Isocrates, Demosthenes, and others. The orators as stylists and as a source for political and social history.
Prerequisite: GREK 132 or equivalent.

GREK 352
GREEK TRAGEDY 3.0
Selected plays of Aeschylus, Sophocles, and Euripides. The metrics, style, themes, and structure of Attic tragedy. The influence of the Greeks on Western drama.
Prerequisite: GREK 132 or equivalent.

GREK 361
GREEK HISTORIANS 3.0
Readings from Herodotus, Thucydides, and Xenophon. The development of Greek historiography as a literary genre and as a medium for reporting events.
Prerequisite: GREK 132 or equivalent.

GREK 451
GREEK PHILOSOPHERS 3.0
Selected readings, especially from Plato's dialogues concerning the trial and death of Socrates. The Greek philosophical tradition and its development in the archaic and classical periods.
Prerequisite: GREK 132 or equivalent.

GREK 452
GREEK LYRIC POETS 3.0
Readings from the principal lyric, iambic, and elegiac poets, primarily those of the Archaic Period. The development of theme, structure, and metre.
Prerequisite: GREK 132 or equivalent.

Latin

LATN 101
BEGINNING LATIN I 3.0
The fundamentals of classical Latin grammar. Reading of simple Latin texts. Meets the General Education Requirement - Foreign Language.

LATN 112
BEGINNING LATIN II 3.0
The continuation of beginning Latin I. Fundamentals of Latin grammar and reading of selected texts. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 101 or equivalent.

LATN 121
INTERMEDIATE LATIN I 3.0
Review of grammar. Selected readings from Latin prose and poetry. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 112 or equivalent.

LATN 132
INTERMEDIATE LATIN II 3.0
Review of grammar. Selected readings from Latin prose and poetry. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 121 or equivalent.

LATN 201
LATIN LITERATURE OF THE REPUBLIC 3.0
A historical survey of the highlights of Latin literature from its beginnings to the death of Cicero. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 132 or equivalent.

LATN 202
LATIN LITERATURE OF THE GOLDEN AGE 3.0
A historical survey of the highlights of Latin literature from the second triumvirate through the early Julioclaudian period. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 132 or equivalent.

LATN 203
LATIN LITERATURE Of THE SILVER AGE 3.0
A historical survey of the highlights of Latin literature from the Neronian period through the second century of the Christian era. Selections from prose and poetry will be read with attention to style, form, outlook, and cultural context. Meets the General Education Requirement - Foreign Language.
Prerequisite: LATN 132 or equivalent.

LATN 204
LATIN LITERATURE OF THE MIDDLE AGES 3.0
The highlights of Latin literature from the disintegration of the Roman Empire in the west to the beginning of the Renaissance. Selections from poetry, history, philosophy, theology, and popular literature will be read with attention to style, development of the language, and historical context.
Prerequisite: LATN 132 or equivalent.

LATN 251
ROMAN LETTER WRITING 3.0
The public figure and the private citizen seen through the letters of Cicero and Pliny. The letters as evidence for Roman political and social history.
Prerequisite: LATN 132 or equivalent.

LATN 252
ROMAN DRAMA 3.0
Selected comedies of Plautus and Terence with attention to style, form, dramatic technique, and literary ancestry. The influence of Roman comedy on subsequent European drama.
Prerequisite: LATN 132 or equivalent.

LATN 253
THE EPIC AND VERGIL 3.0
Readings primarily from the Aeneid but including selections from the Georgics and Eclogues. Vergil as a literary artist and his role in the development of the epic in Western literature.
Prerequisite: LATN 132 or equivalent.

LATN 254
ROMAN LYRIC POETRY 3.0
Readings from the lyrics of Catullus and Horace, with particular emphasis on style, themes, and metrics.
Prerequisite: LATN 132 or equivalent.

LATN 255
OVID 3.0
Selections from Ovid's works, principally the Metamorphoses, Ars Amatoria, Amores, and Heroides. Ovidian style, humor, and use of literary myth. Ovid's influence on literature and the arts.
Prerequisite: LATN 132 or equivalent.

LATN 261
ROMAN BIOGRAPHY 3.0
The biography as a genre: selected passages from Sallust, Tacitus, Suetonius; contrasting these works with autobiographical evidence for the letters and excerpts of other Latin authors.

LATN 284
CICERO AND ANCIENT PHILOSOPHY 3.0
Cicero's philosophical essays with special attention to his role as a transmitter of Greek philosophy to the Roman and later Western world.
Prerequisite: LATN 132 or equivalent.

LATN 310
LATIN COMPOSITION 3.0
Practice in writing Latin prose in conjunction with review of grammar. Readings in selected Latin authors with a view toward acquiring familiarity with different prose styles.
Prerequisite: LATN 132 or equivalent.

LATN 351
ROMAN HISTORIANS 3.0
Selected readings from Sallust, Livy, and Tacitus. The development of Roman historiography in the context of Roman history and the Greek historiographical background.
Prerequisite: LATN 132 or equivalent.

LATN 352
ROMAN SATIRE 3.0
Readings from Horace, Juvenal, Petronius, and others. Different forms and definitions of satire. The Latin contribution to satire in Western literature.
Prerequisite: LATN 132 or equivalent.

LATN 354
THE ELEGY 3.0
The Roman elegiac poets, Tibullus and Propertius; the elegy as a form of poetic expression. Comparison of the elegy in Latin and English literature.

LATN 361
CAESAR: THE END OF THE REPUBLIC 3.0
Selected readings from the *De Bello Gallico* and *De Bello Civili*. Caesar as a politician, general, man of letters, and historical source on his own conquests.
Prerequisite: LATN 132 or equivalent.

LATN 375
STUDY ABROAD 3.0
Approved study-travel program at selected universities, classical sites, museums. Also listed as GNHU 375. Credit by evaluation.

LATN 410
ADVANCED LATIN GRAMMAR 3.0
Linguistic analysis of Latin grammar based on examples from classical authors. Practice in writing Latin prose.
Prerequisite: One Latin course at the 200 level or above; or permission of instructor.

LATN 419
METHODS OF TEACHING LATIN 3.0
The history of methodology together with new approaches and techniques. The development of a Latin curriculum, including evaluation of textbooks and construction of lesson plans, reviews, and tests.
Prerequisite: Three Latin courses at the 200 level or above.

LATN 445
LINGUISTIC HISTORY OF THE LATIN LANGUAGE 3.0
Latin and its position in the Indo-European family; the evolution from the spoken to the literary, to the vulgar, to the Christian; characteristics of the periods exemplified in the language; transitional features in the phonology, morphology, and syntax.

LATN 452
AUGUSTINE 3.0
Selections from the Confessions, the City of God and the Letters; intellectual development and philosophical and theological speculations of Augustine in the framework of the late Roman Empire.

LATN 454
LUCRETIUS AND ANCIENT SCIENCE 3.0
Reading of *De Rerum Natura* with study and discussion of the relation of science and philosophy in antiquity; Greek schools of thought and Roman interpretation of Hellenistic ideas.

LATN 470
SENIOR SEMINAR 3.0
Independent study pursued on a theme in depth by contractual arrangement.

LATN 478
ADVANCED LATIN READINGS: SELECTED TOPICS 3.0
Intensive reading and critical study of a selected author, genre, period, or theme in Latin literature. Topic to be announced each semester. May be repeated for credit with different topics.
Prerequisite: Permission of the department.



COMMUNICATION SCIENCES AND DISORDERS

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Warren E. Heiss

For Matriculated Students:

The undergraduate curriculum in Communication Sciences and Disorders provides a foundation for professional specialization at the master's level. Students progress through a sequence which emphasizes the normal use and development of speech, hearing and language. Subsequent courses consider the nature of communication disorders and principles related to their management. Supervised clinical experience with children and adults presenting communication disorders is available in the on-campus Communication Disorders Center.

The undergraduate program is designed to prepare students to enter master's level training. The master's degree is a requirement for all employment in the field of communication disorders.

On completing the undergraduate curriculum, students may pursue graduate study and concentrate in speech-language pathology, audiology, learning disabilities, or early childhood special education. A post-baccalaureate certification program in teacher of the handicapped is available. The undergraduate and graduate programs in Communication Sciences and Disorders prepare the student to fulfill the requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association, for the N.J. licenses in speech-language pathology and audiology, and for the Speech-Language Specialist Certificate (with some additional course work).

For Prospective Students:

The undergraduate program in communication sciences and disorders is no longer offered. The Certificate of Clinical Competence of the American Speech-Language-Hearing Association and the NJ licenses in Speech-Language Pathology require the completion of a master's degree. Prospective students are urged to attend Montclair State College at the undergraduate level and then matriculate for the master's degree. The master's degree is accredited by the Educational Standards Board of the American Speech-Language-Hearing Association.

Although any undergraduate major can serve as a foundation for master's degree work, students should consider majors or minors that have coursework compatible with graduate study in speech pathology. Such majors/minors include but are not limited to biology, English, family and child studies (Department of Home Economics), linguistics, music therapy, psychology, sociology, communication studies (Department of Broadcasting, Speech Communication, Dance and Theatre).

For undergraduate students who attend Montclair State and who wish to pursue a master's degree in speech/language pathology, a fifteen semester hour cluster of courses will be available to be taken during the senior year. These courses are designed to act as a bridge between undergraduate preparation and master's degree work.

To be taken in the Fall semester
CS&D 408 Phonetic Study of Speech Sounds
CS&D 409 Anatomy and Physiology of Speech & Hearing Systems
CS&D 410 Neurophysiological Bases of Communication

To be taken in the Spring semester
CS&D 500 Speech and Language Acquisition
CS&D 534 Speech and Hearing Science

Prospective students are urged to contact the Department of Communication Sciences and Disorders for advisement.

Communication Sciences and Disorders Major

Required Courses

		Semester Hours
CS&D 100	Fields of Communication Sciences and Disorders	3
CS&D 103	Fundamentals of Voice and Speech Production*	3
CS&D 201	Perspectives on Communication	3
CS&D 309	Voice and Articulation Disorders	3
CS&D 383	Language Development and Language Disorders	3
CS&D 386	Communication Disorders: A Special Education Perspective	3
CS&D 408	Phonetic Study of Speech Sounds	3
CS&D 409	Anatomy and Physiology of Speech and Hearing Systems	3
CS&D 410	Neurophysiological Bases of Communication	3
CS&D 412	Clinical Process and Procedures in Speech-Language Pathology	3
CS&D 461	Introductory Practicum in Communication Disorders	3
CS&D 462	Intermediate Practicum in Communication Disorders	3
CS&D 468	Clinical Procedures in Audiology	3

**Fulfills speech communications requirement for majors.*

Note: Child Psychology, PSYC 201, will be required of all students. Majors are urged to take Psychology of Exceptional Children and Youth to complete the state certification requirement.

Electives

Select courses from the appropriate list to be obtained from the departmental advisors.

Teacher Certification

Speech-Language Specialist Certificate

Candidates for the Speech-Language Specialist Certificate are required to take the following courses which are offered by the Department of Curriculum and Teaching:

Undergraduate level
CURR 400 Teacher, School and Society
CURR 435 Effective Teaching/Productive Learning
Graduate Level
CURR Supervised Student Teaching
CURR 402 Seminar in Professional Education

Students should consult the department advisor for additional information about these requirements.

Courses of Instruction

CS&D 100
FIELDS OF COMMUNICATION SCIENCES AND DISORDERS 3.0
An orientation to practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties.

CS&D 103
FUNDAMENTALS OF VOICE AND SPEECH PRODUCTION 3.0
Theory and practice of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills.

CS&D 201
PERSPECTIVES ON COMMUNICATION 3.0
An overview of a variety of symbol systems used in communication through the perspectives of several related disciplines. Emphasis is given to the significance of the thought-language relationship, to the concerns of semantics and pragmatics, and to cross-cultural issues.

CS&D 309
VOICE AND ARTICULATION DISORDERS 3.0
Voice and articulation problems of pre-school and school-age children. Strategies, techniques and materials for evaluation and remediation.
Prerequisites: CS&D 100, 103, 408, 409.

CS&D 383
LANGUAGE DEVELOPMENT AND LANGUAGE DISORDERS 3.0
An overview of language development and of semantic, syntactic, and pragmatic problems that occur in children. Introduction to language sampling and other assessment techniques and procedures for remediation.

CS&D 386
COMMUNICATION DISORDERS: A SPECIAL EDUCATION PERSPECTIVE 3.0
An examination of the influences on special education practices. Historical, legal, developmental, and instructional forces are explored. Career options as well as issues and trends in special education are addressed.

CS&D 408
PHONETIC STUDY OF SPEECH SOUNDS 3.0
The articulation of sounds of American English, developing an understanding of articulatory features using the international phonetic alphabet.

CS&D 409
ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING SYSTEMS 3.0
The anatomical and physiological bases of respiration, phonation, articulation and resonation. The anatomy and physiology of the auditory mechanism.

CS&D 410
NEUROPHYSIOLOGICAL BASES OF COMMUNICATION 3.0
Study of the anatomy and physiology of the nervous system as it relates to the development of hearing, vision, thought, memory and emotions, as well as the perception, processing and production of speech and language.
Prerequisites: CS&D 408 and 409.

CS&D 412
CLINICAL PROCESS AND PROCEDURES IN SPEECH-LANGUAGE PATHOLOGY 3.0
An orientation to clinical practice. A model of the clinical process is presented which interfaces the interpersonal relationship with professional/technical competencies. Consideration is given to planning treatment programs, traditional and augmentative clinical approaches, therapeutic activities/materials, and clinical reporting.
Prerequisites: CS&D 309, 410.

CS&D 461
INTRODUCTORY PRACTICUM IN COMMUNICATION DISORDERS 3.0
Supervised clinical practice with children and adults presenting a variety of communication disorders.
Prerequisites: CS&D 309, 383, 410, 412.

CS&D 462
INTERMEDIATE PRACTICUM IN COMMUNICATION DISORDERS 3.0
To provide students with initial experiences in offering clinical services to communicatively handicapped clients in the on-campus communication disorders center.
Prerequisites: CS&D 309, 383, 412, 461.

CS&D 468
CLINICAL PROCEDURES IN AUDIOLOGY 3.0
The measurement of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical and educational referral. Demonstrations and supervised practice testing.
Prerequisite: CS&D 409.

COUNSELING, HUMAN DEVELOPMENT AND EDUCATIONAL LEADERSHIP

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Arlene King

Students enrolled in one or more courses offered by the Department of Counseling, Human Development and Educational Leadership will broaden their knowledge and skills in the areas of communication, careers, leadership abilities training, value clarification, group and/or team building and interpersonal interaction. These courses, with the general aim of building foundations for a life open to learning and enrichment, are designed to serve students from varied fields and interests. Four of these courses—Group Dynamics, Personal Values, Career Consciousness, and Dynamics of One-to-One Communication—are General Education Requirement possibilities. Among other courses offered by the department are those dealing with counseling techniques used in the alcoholism recovery process.

For those students wishing to further supplement their chosen major and professional development, an 18-credit Human Services Minor has been developed. This minor will help students increase their communication skills to be used in their own areas of specialization, as well as better comprehend theoretical foundations of both group and one-to-one interaction. They will facilitate the acquisition of skills, knowledge and self-confidence necessary to become more effective leaders and helping professionals.

This department also offers Masters' degrees with specializations involved in guidance, counseling, human services, school social work, school administration and supervision, and organizational training.

Human Services Minor

Required Courses

		Semester Hours
COUN 331	Group Dynamics	3
COUN 330	Dynamics of One-to-One Communication	3
COUN 329	Theories and Techniques of Group Process	3
COUN 434	Facilitating the Interactive Process II	3

Electives

Select 6 semester hours in consultation with and approval of the advisor in Counseling, Human Development and Educational Leadership.

Courses of Instruction

COUN 327
EXPERIMENT IN COMMUNITY LIVING 3.0
The goal of the program is to integrate living and learning more closely by creating an atmosphere in which living is the experience that is the main source of learning. A seminar will provide the interpersonal and community skills necessary to enhance community living. Within the context of the seminar, the group will study and evaluate the process by which the community forms, through examination of the available literature and the living experience.

COUN 328
PEER COUNSELING 3.0
This course provides the student with actual peer counseling experience. This experience takes the forms of one-to-one and group counseling. The student will experience the counseling process both as a counselor and as a client.

COUN 329
THEORIES AND TECHNIQUES OF GROUP PROCESSES 3.0
Given that we function in groups of all sizes and of various purposes throughout life, this course provides an understanding of the underlying dynamics of groups and provides the opportunity to relate the theories of group development to the actual group process.

COUN 330
DYNAMICS OF ONE-TO-ONE COMMUNICATION 3.0
This course is designed to examine the dynamics of one-to-one communication through readings and experientially. The course will further develop personal goals for optimizing personal communication and assist in establishing strategies for the attainment of these goals. Meets the General Education Requirement - Electives, Personal/Professional Issues.

COUN 331
GROUP DYNAMICS 3.0
This course is a seminar laboratory experience designed to facilitate human relationships. Focus is on individual behavior in groups. Participation in actual group process provides opportunity for development of insight into the effects of one's behavior on others. Meets the General Education Requirement - Electives, Personal/Professional Issues.

COUN 332
ACTION APPROACHES TO PERSONAL AWARENESS 3.0
Designed to increase personal awareness and to assist in developing skills needed to maximize individual growth in human interaction. Through the use of psychodrama and order action oriented techniques, students will have the opportunity to experience and develop strategies for working beyond barriers to effective interaction.

COUN 333
LEADERSHIP TRAINING 3.0
This course will demonstrate and utilize the special skills required for effective leadership.

COUN 413
INTRODUCTION TO NEUROLLNGUISTIC
PROGRAMMING AND ERICKSONIAN TECHNIQUES 3.0
A laboratory based course which will introduce students to the history, theory and applications in the field of NLP and Ericksonian techniques.
Prerequisite: COUN 329, or equivalent or permission of instructor.

COUN 430
INTERACTION ANALYSIS 3.0
The purpose of this course is to help participants become more objective in their observations and reporting of interactions which they witness or in which they participate. Various observational tools and methods will be used in the gathering of objective data on three kinds of interaction (interpersonal, small group, and classroom).

COUN 432
PERSONAL VALUES 3.0
Designed to help each participant undertake a personal exploration of his own values, what they are and how he got them, and then consider alternatives available. Meets the General Education Requirement - Electives, Personal/ Professional Issues.

COUN 433
FACILITATING THE INTERACTIVE PROCESS I 3.0
Through observation, lectures, seminars and readings, students will gain understanding of the influence of norms, leadership styles, peers, and other factors on the development of a cohesive group. This experience is preparation for working facilitatively in small groups.

COUN 434
FACILITATING THE INTERACTIVE PROCESS II 3.0
This course provides the opportunity for students to gain much practical experience in leading groups. Students will be expected to co lead groups with staff members and be available to assist in all learning endeavors.

COUN 450
INTRODUCTION TO ALCOHOL/DRUG COUNSELING 3.0
Focuses on alcohol and other drug dependency treatment and fundamental issues of intake, assessment, individual, group and family counseling. Symptoms of the illness, various treatment modalities and relapse crises, as well as "twelve step" programs are explored. Discusses the role of the substance awareness coordinator in intervention and referral, as well as ethics and confidentiality.

COUN 451
COUNSELING THE RECOVERING ALCOHOLIC 3.0
A comprehensive survey of concepts and complexities generic to alcohol related dysfunctions. The course investigates contemporary counseling theories and practices compatible with the pathology of the alcoholic. Emphasis is on helping prospective human service professionals develop behavioral skills germane to appropriate counseling intervention.
Prerequisite: COUN 450

COUN 452
PRACTICUM IN ALCOHOLISM COUNSELING 3.0
This course provides students with a supervised practicum in a human service agency which treats alcoholics. Under supervision of a certified counselor, they will observe and participate in the agency activities. Students will also examine the interactions of other health professionals, community resources and services available to the client in his/her recovery.
Prerequisites: COUN 450, 451.

COUN 453
FIELD WORK IN ALCOHOLISM COUNSELING 3.0
This course will integrate student learnings in counseling the alcoholic. Students will re-examine major counseling theories in alcoholism and will also plan and implement counseling sessions under supervision.
Prerequisites: COUN 450, 451, 452.

COUN 454
COMMUNITY RESOURCES IN ALCOHOLISM AND SUBSTANCE ABUSE COUNSELING 3.0
Examines how inpatient and outpatient community resources in substance abuse treatment are integrated with other social service agencies. The cultural milieu of the schools and education and prevention with families and adolescents is emphasized. Discusses ethics, policy setting, staff training and curriculum development.
Prerequisite: COUN 450 or HLTH 511

COUN 481
THE LEGAL RIGHTS OF WOMEN 3.0
This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of affirmative action, civil rights legislation and titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered. Meets the Multicultural Awareness Requirement.

COUN 482
CAREER CONSCIOUSNESS 3.0
This is a course in career skills that integrates schematic human relations training and problem solving techniques with the definition of career goals. The ultimate aim is to facilitate your successful exit from college. Meets the General Education Requirement - Electives, Personal/Professional Issues.

CURRICULUM AND TEACHING

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Susie B. Boyce

Teaching has been called the immortal profession because of the impact it has on any society. The mission of the department of Curriculum and Teaching is the professional education of public school teachers. Its faculty offers courses the professional education sequence. Special care has been taken in the development of the field experience courses. In order to support the continuing professional growth of teachers, there are programs and courses at the graduate level.

The Teacher Education, Post-Baccalaureate Certification, Master of Arts in Teaching Degree and Master of Education Degree programs are described elsewhere in this catalog (see index).

Courses of Instruction

CURR 100
COLLEGE LEARNING AND THINKING SKILLS 3.0
Course is designed to provide freshmen in the student tutorial program with a learning environment in which to develop the cognitive and affective strengths needed for college success. The course offers opportunities to become inquisitive, competent, and confident learners. Cross listed with READ 100.

CURR 200
INITIAL FIELD EXPERIENCE 1.0
An introductory course in the professional education sequence. Classroom instruction and visits to public schools will provide students the opportunity to examine public education from a professional perspective. (This course is required before full admission to Teacher Education.)

CURR 400
TEACHER, SCHOOL AND SOCIETY 3.0
An overview of the field of education, includes a consideration of instructional, curricular, legal and professional issues affecting teachers, schools and society as well as implications for students.

CURR 402
SEMINAR IN PROFESSIONAL EDUCATION 1.0
Part of the professional semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to find practical solutions to problems experienced. Placement in professional semester field center. Course only open to student teachers.
Prerequisite: CURR 410.

CURR 409
TEACHING FOR CRITICAL THINKING 3.0
Designed for pre-service teacher to foster critical thinking in and about the disciplines they will teach. Emphasis will be placed on the processes of thinking in general, on the nature of critical thinking, on classroom conditions which promote critical thinking, on metacognition, whereby students will be encouraged to be conscious of their own thinking and on methods for assessing the quality of students' thinking. Crosslisted with EDFD 409 and READ 409.
Prerequisites: Completion of initial field experience, educational psychology courses as well as formal admission to the Teacher Education Program.

CURR 410
INTERMEDIATE FIELD EXPERIENCE IN EDUCATION 1.0-3.0
Thirty hours per credit in a public school as assistant to the classroom or subject teacher. Observing, working with individuals and small groups of students, helping with clubs and student activities, teaching 'mini-lessons' and becoming familiar with teacher activities. Each student keeps a log of activities. Class meetings on campus during the experience are arranged.
Prerequisite: Admission to teacher preparation program. Obtain course application from the School of Professional Studies, Office of Teacher Education prior to registration for course.

CURR 411
SUPERVISED STUDENT TEACHING 8.0
Student teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements. Part of professional semester.

CURR 412
FIELD WORK IN URBAN EDUCATION 1.0-3.0
Similar to CURR 410 with emphasis on tutoring and individual conferences in urban public school. Student keeps a log of activities. Class meetings on campus.
Prerequisite: Admission to teacher preparation program. Obtain course application from the School of Professional Studies office prior to registering for course. Meets the Multicultural Awareness Requirement.

CURR 413
FIELD WORK IN COMMUNITY AGENCIES 1.0-3.0
Thirty hours of guided experiences in public and private agencies. Objectives, scope and activities of agencies related to education. Preparation of report as specified on application form and log of activities. Class meetings on campus during the experience are arranged.

CURR 414
IN-SERVICE SUPERVISED TEACHING I 4.0
Replaces supervised student teaching for those employed in teaching situations without standard certification. Joint supervision by the school district and college personnel. Student must have permission of department chairperson and the school district.
Corequisite: CURR 402.

CURR 415
IN-SERVICE SUPERVISED TEACHING II 4.0
Continuation of In-service Supervised Teaching I; the corequisite seminar is replaced by a series of special in-service conferences included in the course.
Prerequisite: CURR 414.

CURR 417
MUSIC EDUCATION SUPERVISED STUDY I 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight credits required for certification. Limited to Music majors.
Prerequisite: Admission to Teacher Education Program. Registration with Student Teaching Office.

CURR 418
MUSIC EDUCATION SUPERVISED STUDY II 4.0
Supervised student teaching in a public school for one-half semester. Experience at elementary and secondary level. Students must consult advisor regarding other professional semester requirements. Eight semester hours required for certification. Limited to music majors.

CURR 421
SEMINAR: PROBLEMS OF A CLASSROOM TEACHER 1.0-3.0
Reviewing, evaluating and relating teacher aide and student teaching experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptions in techniques and practices. Should be taken concurrently with or immediately after experiences.
Prerequisite: Departmental permission.

CURR 423
TEACHING IN URBAN SCHOOLS 3.0
Focuses on factors affecting teaching and learning in urban schools. Topics include the nature and structure of urban schools, recent innovations in urban settings, mores and family patterns in the inner city, and funding opportunities. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

CURR 435
EFFECTIVE TEACHING/PRODUCTIVE LEARNING 3.0
The course is designed for students preparing for and subsequently participating in the teaching internship. It will develop basic teaching skills which the research literature indicates are related to productive learning outcomes. The skill areas are those of communication, motivation, classroom discipline, learning and cognitive development, media usage, multi-cultural education, curriculum, and evaluation and practical research. Part of the professional semester.
Prerequisites: Teacher Education students only; senior standing; PSYC 200; departmental methods course; field work.



ECONOMICS AND FINANCE

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Phillip LeBel

Economics is the study of how market and nonmarket institutions can best allocate relatively scarce resources to promote individual and social welfare. As such, it offers well-defined mechanisms for analyzing a wide array of theoretical and policy-oriented issues. Finance builds on the foundations of economics to provide students with a professional background in both corporate finance and investments. Together, the curriculum in economics and finance is designed to contribute to a broad-based liberal arts education by expanding a student's perception of the economic and financial decisions that individuals and societies must make under widely varying conditions. Strong emphasis is given to the development of skills in analytical reasoning, quantitative fluency, written and oral communications, as well as creative excellence.

The Department currently offers four undergraduate programs. They are: the B.A. in Economics, the B.A. in Economics with a Concentration in Business, the B.S. in Business Administration with a Concentration in Economics, and the B.S. in Business Administration with a Concentration in Finance. In addition to preparing students for direct career experience in business, government and the professions, the program provides excellent preparation for graduate work in Economics, Finance, and in related disciplines. Departmental faculty also support the Concentration in Economics and the Concentration in Finance in Montclair State's M.B.A. program, as well as the Concentration in Economics in Montclair State's M.A. in Social Sciences. Given the active participation of faculty in teaching, research, and community service, the undergraduate programs in Economics and Finance benefit from the skills of highly experienced professionals.

Economics Major

Students who wish to major in Economics must meet the following departmental admissions criteria:

1. a cumulative grade point average (GPA) of 2.75 or better in a minimum of 12 credits taken at Montclair State College or an accredited equivalent;
2. a 2.50 combined minimum GPA for completion of the following two courses, or equivalents: ECON 101 Principles of Economics: Macro, and ECON 102 Principles of Economics: Micro;
3. a 3.00 combined minimum GPA for any two courses from the following Social Science disciplines, or equivalents: Anthropology; Environmental, Urban and Geographic Studies; History; Political Science; Psychology; Sociology;
4. a 2.00 minimum GPA for completion of the following two courses, or equivalents: i. MATH 113 Mathematics for Business I: Linear Algebra; ii. MATH 114 Mathematics for Business II: Calculus.

Required Courses:

			Semester Hours
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3
ECON	203	Economic Statistics	3
ECON	207	Intermediate Microeconomic Analysis	3
ECON	208	Intermediate Macroeconomic Analysis	3
ECON	420	Econometrics	3
ECON	438	Advanced Seminar in Economics	3

Electives

Select 15 semester hours from the appropriate list to be obtained from the department 15

Graduation in Economics requires that a student complete a total of 36 credits in the major. In addition, a student must complete BEOS 320 Business Communications. Additional information on freshman, transfer, and readmission standards, course updates, scheduling sequences, departmental honors, and graduation requirements are found in the **Guide to the Department of Economics** handbook.

Concentration in Business Economics

In addition to the B.A. in Economics, the Department also offers a B.A. in Economics with a 49 semester hour concentration in Business Economics. The Concentration requires meeting the same entry standards as those for B.A. in Economics. The program is based on 9 hours of prerequisite courses, 25 hours of required core courses, and 15 hours of electives in Economics and Business. The 9 hours of prerequisites are based on Principles of Macroeconomics, Principles of Microeconomics, and Economic Statistics.

Required Courses:

			Semester Hours
ECON	207	Intermediate Microeconomic Analysis	3
ECON	208	Intermediate Macroeconomic Analysis	3
ECON	420	Econometrics	3
ECON	438	Advanced Seminar in Economics	3
ACCT	201	Fundamentals of Accounting I	3
ACCT	202	Fundamentals of Accounting II	3
FINC	321	Fundamentals of Finance	3
MGMT	311	Management Process and Organizational Behavior	4

Elective Courses

Select 15 semester hours from the appropriate list in the **Guide to Programs** available through the department 15

Economics Minor

The department maintains a minor program for all majors at Montclair State. It involves the completion of 18 semester hours from courses in Economics, 12 credits of which are based on ECON 101 Principles of Economics Macro, ECON 102 Principles of Economics Micro; ECON 207 Intermediate Microeconomic Analysis; and ECON 208 Intermediate Macroeconomic Analysis, with 6 credits at the 300 and 400 level to be selected from a program list available through the department.

Business Administration Major

Students majoring in Business Administration who wish to graduate with a Concentration in Finance must first complete a sequence of 51 semester hours based on 33 semester hours of core courses of the Business Administration curriculum, and 18 semester hours of collateral courses. Admission standards to the School of Business program are the same as those listed under the Economics program.

Required Courses

			Semester Hours
ACCT	201	Fundamentals of Accounting I	3
ACCT	202	Fundamentals of Accounting II	3
BSLW	261	Legal Environment of Business I	3
FINQ	270	Statistics for Business	4
MGMT	311	Management Process and Organizational Behavior	4
FINC	321	Fundamentals of Finance	3
MKTG	340	Introduction to Marketing	3
FINQ	372	Management Science	4
MGMT	439	Business Policy	3
FINQ	463	Administrative Research Methodology and Analysis	3

Collateral Courses

MATH	113	Mathematics for Business I: Linear Algebra	3
MATH	114	Mathematics for Business II: Calculus	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

In addition, students must complete 6 credits from courses offered through the following departments: Anthropology, Psychology, Sociology 6

B.S. in Business Administration: Concentration in Finance

Upon completion of the core course curriculum, students majoring in Business Administration may wish to enroll in the Concentration in Finance. The Concentration requires completion of 24 semester hours of courses, of which 12 hours are required courses in Finance and 12 hours are Finance electives.

Required Courses

			Semester Hours
FINC	322	Capital Budgeting Management	3
FINC	326	Investment Principles and Portfolio Theory	3
FINC	327	International Financial Management	3
Select One			
ECON	301	Money and Banking	3
FINC	423	Advanced Corporate Finance	3
FINC	425	Working Capital Management	3
FINC	430	Security Analysis and Advanced Portfolio Theory	3
FINC	431	Advanced International Financial Management	3
FINQ	362	Business Economics	3

Finance Electives

Select 12 semester hours from the appropriate list to be obtained from the department 12

B.S. in Business Administration: Concentration in Economics

In addition to the B.A. in Economics and the B.A. in Economics with a Concentration in Business, the Department also provides or a B.S. in Business Administration with a Concentration in Economics. Students must first meet the admissions standards for entry in the School of Business, and then complete the 51 semester hour core course curriculum prior to completing the Concentration in Economics. The Concentration in Economics requires completion of 15 semester hours in Economics, based on the distribution listed below.

Required Courses:

			Semester Hours
ECON	206	Managerial Economics, or	
ECON	207	Intermediate Microeconomic Analysis	3
ECON	208	Intermediate Macroeconomic Analysis	3
ECON	301	Money and Banking	3

Elective Courses

Select 6 semester hours from the appropriate list in the **Guide to Programs** available through the department 6

Courses of Instruction

ECON 100
INTRODUCTION TO ECONOMICS 3.0
Major objectives and features of the American economy, including operations of a market economy, structure and function of business, money and banking, government and business relations. For non-majors only. May not be taken after ECON 101 and/or ECON 102 have been taken. Meets the General Education Requirement - Social Science, Survey Course.

ECON 101
PRINCIPLES OF ECONOMICS: MACRO 3.0
A study of the American economy, analytically and institutionally; the achievement of an optimal allocation of resources, price stability, full employment level of national income and long term growth. Meets the General Education Requirement - Social Science, Survey Course.

ECON 102
PRINCIPLES OF ECONOMICS: MICRO 3.0
Organization and operation of the American economy for the production and distribution of goods and services. Pricing of products and factors of production in market situations varying from competition to monopoly. Resource allocation, price determination and behavior of the firm in the determination of quantity of output and the hiring of factors of production. Meets the General Education Requirement - Social Science, Survey Course.

ECON 203
ECONOMIC STATISTICS 3.0
Basic elements of economics statistics including frequency distribution, sampling, index numbers, statistical inference, regression and correlation techniques.
Prerequisites: ECON 101 and 102 or instructor's permission.

ECON 205
COLLECTIVE BARGAINING: THEORY AND PRACTICE 3.0
The development of collective bargaining in the United States and an analysis of the factors that account for present practices. The impact of collective bargaining on contemporary American life. Work in field.
Prerequisites: ECON 101, 102 or instructor's permission.

ECON 206
MANAGERIAL ECONOMICS 3.0
The application of economic theory in the decision-making processes of the firm; utilization of economic analysis in the study of demand, costs, pricing and capital investment decisions.
Prerequisites: ECON 101, 102, and 203.

ECON 207
INTERMEDIATE MICROECONOMIC ANALYSIS 3.0
The basic determinants of market demand. Input-output relationships in determining cost structure. Determination of prices received by resource owners in the productive process. Theory of the firm and pricing in different types of market organization with varying degrees of competitive conditions.
Prerequisites: ECON 101, 102.

ECON 208
INTERMEDIATE MACROECONOMIC ANALYSIS 3.0
The factors comprising aggregate demand and how they interact to determine the level of employment, output and the price level, the role of monetary and fiscal policy.
Prerequisites: ECON 101, 102.

ECON 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
Evolution of economic institutions with emphasis on development of domestic and foreign markets, technological changes and industrial growth. Analysis and interpretation of cyclical changes.

ECON 215
THE ECONOMICS OF SOCIAL PROBLEMS 3.0
The extent, causes and consequences of poverty, inequality and insecurity. An appraisal of reforms, social insurance, medical care, public housing, rural development. The economics of discrimination and educational opportunity. Meets the General Education Requirement - Social Science, Topic Course. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

ECON 222
ECONOMIC HISTORY OF EUROPE 3.0
The economic life and development of Europe from the Middle Ages to the present, emphasizing the period from about 1750; economic causes that underlie the dislocations and perplexities of the 19th and 20th centuries.

ECON 250
SELECTED TOPICS IN ECONOMICS 3.0
An in-depth study of a particular theoretical or applied area of economics.

ECON 300
WORLD RESOURCES AND INDUSTRIES 3.0
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations. Also listed under Environmental, Urban and Geographic Studies as EUGS 300.

ECON 301
MONEY AND BANKING 3.0
An analysis of the economic role of money and credit in our economy with primary emphasis on federal reserve and treasury operations.
Prerequisites: ECON 101, 102.

ECON 303
ECONOMIC GROWTH AND DEVELOPMENT 3.0
Problems of hastening the growth of countries with low incomes per person; the requisites for the economic development, the obstacles to such development, the strategy and tactics of development and aid for development. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.
Prerequisite: ECON 207.

ECON 304
PUBLIC POLICIES TOWARD BUSINESS 3.0
The economic organization of particular American industries. U.S. policy toward competition, monopoly and bigness in business. Government control of public utilities, transportation, radio and television broadcasting.
Prerequisites: ECON 207 or 206.

ECON 308
PUBLIC FINANCE 3.0
The impact of governmental expenditures,taxes and debt operation on resource allocation, income distribution, economic stabilization and economic growth.
Prerequisites: ECON 207 or 206.

ECON 310
URBAN AND REGIONAL ECONOMICS 3.0
The underlying economic forces operating in the urban economy development of the urban economic unit, relationship of the urban economy to the regional and national economy, economic activity within the urban area and the public sector of the urban economy.
Prerequisites: ECON 207 or 206.

ECON 311
LABOR ECONOMICS 3.0
The determinants of wages in the organized and unorganized markets; an historical survey and analysis of the principal institutions and central processes in the labor and manpower areas, an examination of current issues in labor relations.
Prerequisites: ECON 207 or 206.

ECON 312
BUSINESS CIRCLES AND FORECASTING 3.0
Fluctuations in economic activity which characterize modern industrial economies. Definitions, descriptions and statistical measurement of business cycles are presented along with theories describing the causes of the cycles. Practical application of forecasting techniques to predict the course of future economic and business activity.
Prerequisites: ECON 203 or equivalent, and ECON 208.

ECON 314
DEVELOPMENT OF ECONOMIC THOUGHT 3.0
Broadening and improving the command of modern economic theory by examining the outstanding contributors to economic thought over the past two centuries.
Prerequisites: ECON 101 and 102 or Instructor's permission.

ECON 398
ECONOMIC INDEPENDENT STUDY 3.0
Independent study for juniors and seniors who have developed a special interest as a result of work in a course or who wish to develop their interest through their own guided reading. A member of the economics department guides the student in his research and reading.

ECON 401
FINANCIAL INSTITUTIONS 3.0
The structure and operation of financial institutions, their role in the economy and in the money and capital markets. The techniques and objectives of monetary policy and its effect on financial institutions.
Prerequisites: ECON 208 or 301.

ECON 402
INTERNATIONAL ECONOMICS 3.0
The how, why and consequences of the movement of goods, services and factors of production in international exchange and an examination of the financial arrangements used to facilitate trade.
Prerequisites: ECON 206 or 207.

ECON 403
COMPARATIVE ECONOMIC SYSTEMS 3.0
The economics systems of planned and mixed economies with special emphasis on the Soviet Union, China, the United Kingdom, the Scandinavian countries and the United States. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: ECON 206 or 207 or 208.

ECON 404
INTERDEPENDENCE IN THE GLOBAL ECONOMY 3.0
This course is a one semester introduction to the challenges and opportunities created by the increasing interdependence in the world economy. The emphasis is on empirical explorations of the implications of the core theories of international trade and finance for the U.S. consumer, entrepreneur and policymaker. In addition, some of the current economic issues flowing from our global linkages are examined with a view to assessing the propriety of the fiscal and monetary response.
Prerequisite: ECON 402.

ECON 405
ECONOMIC DEVELOPMENT OF SUB-SAHARAN AFRICA 3.0
An examination of economic policies in Africa as they effect prospects for growth and development of the region. Students will engage in a variety of research projects that combine theory with analytical tools to derive policy-relevant findings. Meets the Multicultural Awareness Requirement.
Prerequisites: ECON 101, 102, 203, 207.

ECON 407
ECONOMICS OF INDUSTRIAL ORGANIZATION 3.0
The causes and effects of structure, size and concentration on competition and market prices.
Prerequisites: ECON 207 or 206.

ECON 410
COMPUTER APPLICATIONS IN ECONOMICS 3.0
This course is designed to use computer concepts in the context of economic applications. Empirical and theoretical aspects of economics are studied. Computer applications are covered in statistics and econometrics, cost-benefit analysis, optimal decision-making input-output economics, and the simulation of economic models. Students apply programming concepts as well as use existing software.
Prerequisites: ECON 101, 102, 203 and either 207 or 208.

ECON 417
MATHEMATICAL ECONOMICS 3.0
Formulation of economic theory in mathematical language. Application of mathematical methods to economic theory and to the derivation of theoretical conclusions.
Prerequisites: ECON 207 or 206, and ECON 208. MATH 114 Mathematics for Business II is recommended but not required.

ECON 418
ECONOMICS OF HUMAN RESOURCES 3.0
Analysis of the role of human resources in the economic.
Prerequisites: ECON 207 or 206.

ECON 419
ECONOMICS OF ENERGY AND ENVIRONMENTAL POLICY 3.0
An examination of the economic, technological, and environmental dimensions of energy policy choices. Emphasis is given to the linkages among various economic models, elementary principles of energy storage and conversion, and specific energy technologies as they apply to past and current energy policy alternatives.
Prerequisites: ECON 207 or 206.

ECON 420
ECONOMETRICS 3.0
An introduction to the techniques of applied economic (Social Science) research. Examination of the tools necessary for applied economic research and methods for dealing with certain problems inherent in economic data. The primary emphasis will be on the application of the techniques to economic data.
Prerequisites: ECON 101, 102, 203 or equivalent course.

ECON 438
ADVANCED SEMINAR IN ECONOMICS 3.0
A seminar designed to integrate economic theory, quantitative tools, and institutional knowledge in a series of applied issues. Students are required to undertake a number of specific oral and written projects that describe their understanding of key elements within the discipline.
Prerequisites: ECON 101, 102, 203, 207, 208, and 420.

ECON 439
ADVANCED SEMINAR IN ECONOMICS: HONORS I 3.0
Define the scope and methodology of the honor project through the presentation of a thesis prospectus. This process will involve preparation of a review of the relevant research literature, specification of an appropriate research methodology, gathering and testing of preliminary data where appropriate, as well as submission of the thesis prospectus to the departmental honors committee.

ECON 440
ADVANCED SEMINAR IN ECONOMICS - HONORS II 3.0
Student will complete all appropriate quantitative and qualitative analysis of Seminar in Economics Honors I as well as prepare a summary and interpretation of their findings. Through discussion of findings, faculty and student will make suggestions for and additional analysis or revisions to be undertaken.
Prerequisite: ECON 439.

ECON 497
ECONOMICS INDEPENDENT STUDY 3.0
Open to students who wish to undertake reading and/or research in specialized areas of economics.
Prerequisite: Permission of department chairperson.

FINC 321
FUNDAMENTALS OF FINANCE 3.0
Financial statements and financial forecasting. Introduction to risk, return, and value. Introduction to working capital management, capital budgeting, optimum capital structure, and dividend policy.
Prerequisites: ACCT 202, ECON 101, 102.
Corequisite: FINQ 270.

FINC 322
CAPITAL BUDGETING MANAGEMENT 3.0
Analysis of various investment criteria, especially net present value and internal rate of return. Risk in capital budgeting, capital budgets and performance evaluation, stressing the distinction between accounting and financial criteria. Application of concepts and techniques to such issues as leasing, mergers and acquisitions.
Prerequisites: FINQ 270, FINC 321.

FINC 326
INVESTMENT PRINCIPLES AND PORTFOLIO THEORY 3.0
Financial assets and markets; investors attitudes; sources of investment information, market efficiency, risk and return characteristics of securities. Covariance principle. Application of the capital asset pricing model and general investment valuation methods.
Prerequisites: FINQ 270, FINC 321.

FINC 327
INTERNATIONAL FINANCIAL MANAGEMENT 3.0
Introduction to multinational business finance. Foreign exchange markets and exchange rate forecasting. Balance of payment accounts, measures of surplus or deficit and their relevance to financial planning. International financial markets and international banking. Import and export financing. Positioning of funds.
Prerequisites: FINC 321.

FINC 423
ADVANCED CORPORATE FINANCE 3.0
Interaction of investment and financing decisions. Optimal capital structure and dividend policy: The Miller-Modigliani propositions. Calls and puts. Option valuation models. Valuation of risky debt and term structure of interest rates. Warrants and convertibles.
Prerequisites: FINC 322 or 326.

FINC 425
WORKING CAPITAL MANAGEMENT 3.0
Detailed treatment of topics such as components of working capitals; cash budgeting; short-term financial planning. Credit management; cash and inventory management; short-term lending and borrowing.
Prerequisite: FINC 321.

FINC 427
SECURITY ANALYSIS 3.0
Critical examination of investment theories; analysis of securities, primarily of private corporations; evaluations of factors affecting the return from a security; forecasting the return-risk characteristics of stocks and bonds; introduction to portfolio strategies and workable criteria for the selection (or rejection) of these securities.
Prerequisite: FINC 326.

FINC 429
REAL ESTATE INVESTMENT 3.0
Covers mortgage financing, ownership forms, tax factors, inflation, leverage, risk/return, cash flow projection, holding period, and disposition strategy. Examines the rent or house-buying decision; land, apartment building, office building, and shopping center investments; and the current investment climate.
Prerequisite: FINC 321'.

FINC 430
SECURITY ANALYSIS AND
ADVANCED PORTFOLIO THEORY 3.0
Critical examination of methods of stock and bond valuation. Fundamental and technical analysis. Application of portfolio theory and investment strategies. Pension plans.
Prerequisites: FINC 321, 326.

FINC 431
ADVANCED INTERNATIONAL FINANCIAL MANAGEMENT 3.0
Measurement and management of foreign exchange exposure. Exchange and country risk. The Foreign Investment Decision, multinational capital budgeting, cost of capital and financial structure.
Prerequisites: ACCT 202, FINC 321, 327.

FINC 491
CO-OP EDUCATION IN FINANCE 3.0-8.0
This course is aimed at synthesizing theory and practice. Students will be provided an opportunity to have an exposure to one or two off-campus on-job-trainings in various aspects of quantitative methods of one, or more businesses. Full-time students may alternate between college and business where as part-time students may take course in parallel with college.
Prerequisites: Junior/Senior standing; approval of Co-op Coordinator; FINQ 270; and at least one course in Finance.

EDUCATIONAL FOUNDATIONS

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Thunder Haas

As a society evolves, so does its educational responsibilities. The department meets these changing needs by developing innovative programs through comparative study, and philosophical and sociological theory. In this way, it also services and improves existing programs. The department offers undergraduate and graduate courses for the preparation of public school educators while meeting the specialized demands that are beyond the limits of the public schools. The department's minor in Educational Policy Studies is designed to meet these specialized demands. All of the departments courses serve as a sound background for our graduate M.Ed. concentration in Critical Thinking.



Courses of Instruction

EDFD 220
PHILOSOPHICAL ORIENTATION TO EDUCATION 3.0
Western philosophical heritage as related to the issues and responsibilities of American education. Comparative analysis of past and current ideological movements that influence moral, social, and educational decisions of parents, political leaders, and professional educators. Meets the General Education Requirement - Humanities, Philosophy/Religion.

EDFD 264
SEXISM IN AMERICAN EDUCATION 3.0
Designed to analyze sexism in the American schools with emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement.

EDFD 409
TEACHING FOR CRITICAL THINKING 3.0
Designed for pre-service teacher to foster critical thinking in and about the disciplines they will teach. Emphasis will be placed on the processes of thinking in general, on the nature of critical thinking, on classroom conditions which promote critical thinking, on metacognition, whereby students will be encouraged to be conscious of their own thinking and on methods for assessing the quality of students' thinking. Crosslisted with CURR 409 and READ 409.
Prerequisites: Completion of initial field experience, educational psychology and general psychology courses as well as formal admission to the Teacher Education Program.

EDFD 440
SOCIOLOGICAL FOUNDATIONS OF EDUCATION 3.0
The study of education as a major social institution. Social and cultural influences on teachers and learners and factors which affect educational structures, processes, and outcomes. Considers social and cultural influences on teachers and learners; the relationship of culture, role, and personality in the classroom; and the school as a changing system. Meets the General Education Requirement - Social Science, Topic Course.

EDFD 477
ETHNIC/RACIAL GROUPS AND THE SCHOOLS IN AMERICA 3.0
A multidisciplinary study of the meaning and significance of cultural pluralism in the United States. Analyzes problems associated with cultural pluralism and the historical and contemporary sources of those problems, the role of the school in assimilation/acculturation and in affecting social and economic outcomes for various groups, and avenues to improved cross-cultural understanding through education. Meets the General Education Requirement - Contemporary Issues.

EDFD 480
FOUNDATIONS OF ELEMENTARY EDUCATION 6.0
This course provides an introduction to teaching at the elementary school level. Students will consider the underlying foundations of curricular content and their implications for the design and evaluation of student learning activities. Students will experience and examine classroom practices through which the foundations of knowledge and understanding in each of the content areas can be developed.
Prerequisites: PSYC 200, EDFD 200, EDFD 400, and READ 400 or 407 or 408.

ENGLISH

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES
Chairperson: James F. Nash

The English Department offers instruction in interpreting and creating informative and imaginative texts, and in the description and historical understanding of the English and American languages, and in the cultural understanding of world literatures written in English.

Students may major or minor in English, minor in journalism or film, concentrate in creative writing, or obtain a teaching certificate. The English Department participates in the Cooperative Education Program to offer students career oriented work opportunities.

Students should note that ENGL 105 *Freshman Composition* and ENGL 106 *Introduction to Literature* or equivalent are prerequisites for all other English courses, except that English majors may take one additional English course numbered in the 100's concurrently with ENGL 105 and 106.

English Major

Required Courses

	Semester Hours
Genre (select one)	
ENGL 260 Art of Poetry	3
ENGL 262 Art of Fiction	3
ENGL 263 Art of Drama	3
Language and Rhetoric* (1 course)	3
American Literature* (2 courses each from a different period)	6
British Literature* (3 courses each from a different period)	9
Comparative Literature* (1 course)	3

*Check with department for appropriate courses.

English Minor

Required Courses

	Semester Hours
Genre, Comparative Literature, Language and Rhetoric (2 courses)	6
American Literature (2 courses)	6
British Literature (2 courses)	6

Journalism Minor

Required Courses

	Semester Hours
ENWR 210 Newswriting	3
ENWR 216 History of Journalism in America	3
ENWR 313 Editing	3

Electives (Three of the following)

ENWR 214 Feature Writing	3
ENWR 300 Meet the Press	3
ENWR 314 Advanced Editing	3
ENWR 315 Magazine Journalism	3
ENWR 316 Reporting of Public Affairs	3
ENWR 416 Interpretive Journalism	3

Creative Writing Concentration

Required Courses

	Semester Hours
ENWR 200 Creative Writing: Fiction, Poetry, Drama	3
Any three of the following:	
ENWR 204 Advanced Expository Writing	3
ENWR 310 Writing: Drama	3
ENWR 311 Writing: Fiction	3
ENWR 312 Writing: Poetry	3
ENWR 411 Advanced Writing: Fiction	3
ENWR 412 Advanced Writing: Poetry	3
ENWR 491 Seminar in Writing	3

Special Programs

English Cooperative Education

The English Cooperative Education program places students with strong writing and analytical skills in supervised employment outside the classroom. The co-op term is a semester during which the student is advised by a faculty coordinator and the Cooperative Education office and completes the terms of a learning contract.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. Prerequisites for admission to the teacher preparation program in English and current requirements in the discipline for both a first and a second teaching field certificate can be obtained in the English department.

Courses of Instruction

ENFL 208
INTRODUCTION TO THE FILM 3.0
The history and aesthetics of film from its beginning to the present, with special attention to the evolution of technique, influential art movements and national cinemas, pivotal directors and films. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ENFL 250
MAJOR FILM DIRECTORS 3.0
Focusing on the life and work of influential filmmakers, the course addresses such issues as auteur criticism, the nature of successful collaborations (scriptwriting teams, director/cinematographer) and performance theory.

ENFL 255
WORLD FILM 3.0
Films from the major film producing countries including the United States, France, Germany, Italy, Sweden, Russia, England, India and Japan. Within that framework, special topics will be defined: A specific period, a particular theme or problem, comparison/contrast of several national cinemas.

ENFL 260
MAJOR FILM GENRES 3.0
Examples from the major film genres, such as the western, the crime film, the musical, the horror film, and film noir, with special emphasis on American film and principles of genre criticism.

ENFL 310
SCREENWRITING I 3.0
The art and craft of writing for the screen will be both studied and practiced. After studying the fundamentals of effective cinematic story construction and dialogue writing, students will be required to write a half hour film script. *Prerequisites: GNHU 208 or ENFL 208 and ARFL 218.*

ENFL 350
THREE DIRECTORS 3.0
A comparative study of three major film directors. The focus - using an auteurist derived methodology - will be to investigate a common problem or challenge confronted by each of the three directors.

ENFL 356
THE CONTEMPORARY FILM 3.0
Beginning with American film noir and European films which emerged after World War II, the course traces the major films, directors, critical theories and other influences which make up the contemporary film and define a specifically modernist sensibility.

ENFL 357
AMERICAN FILM TO 1945 3.0
An investigation of the foundations and development of the classical Holly wood style focusing on genres and directors of significance.

ENFL 358
AMERICAN FILM 1945 TO THE PRESENT 3.0
An investigation of filmmaking in the United States following World War II, focusing on the genres, directors and aesthetic movements of significance.

ENFL 360
FILM COMEDY 3.0
Film comedies from all periods in relation to comic theory and its application with particular emphasis on American films of the 20's and 30's.

ENFL 410
SCREENWRITING II 3.0
This course is a continuation of Screenwriting I in which each student will work on a major screenwriting project: two one-half hour episodes, an hour long script or a first draft of a feature film. In developing the project, the individual needs of the student will be addressed.
Prerequisite: ENFL 310 and permission of the instructor.

ENFL 490
SPECIAL TOPICS IN FILM STUDIES 3.0
A non-survey course to address specific issues in film studies. The course may be taken more than once if different topics are taken.

ENGL 100
BASIC COMPOSITION 3.0
Instruction in basic writing skills, with frequent writing assignments. In addition to regular class meetings, students may be required to attend tutorial sessions over as long a period of time as necessary to raise students' skills to college standards. Placement based on scores in New Jersey College Basic Skills Placement Test. For those placed, this course is prerequisite to ENGL 105.

ENGL 105
FRESHMAN COMPOSITION 3.0
Writing skills and research techniques with frequent writing assignments and a research paper. This course and ENGL 106 are prerequisites for all other English courses. Meets the General Education Requirement - Communication, Writing.

ENGL 106
INTRODUCTION TO LITERATURE 3.0
All forms of literature selected from different periods and cultures. This course and ENGL 105 are prerequisite for all other English courses. Meets the General Education Requirement - Communications, Reading.
Prerequisite: ENGL 105 or equivalent course.

ENGL 139
SOCIAL PROTEST LITERATURE IN AMERICA 3.0
Novels, dramas and poetry of protest against social injustices in the United States since World War I.

ENGL 175
THE VIETNAM WAR EXPERIENCE AND
AMERICAN CULTURE 3.0
This course examines the problem of the legacy of the experience of the Vietnam War (sometimes called the "Vietnam Syndrome") as it is reflected in the culture of the United States and primarily in American literature since the end of the war in 1975. Differing discussions and evaluations of the problems bequeathed by the Vietnam War will be examined in works of political commentary, cultural criticism, history, and foreign affairs, as well as in literature. Meets the General Education Requirement - Contemporary Issues.

ENGL 226
LITERATURE OF THE AMERICAN RENAISSANCE 3.0
Moby Dick and *The Scarlet Letter* among other major works by masters of the American Romantic Period - Emerson, Thoreau, Hawthorne, Melville, Whitman and Poe - are examined.

ENGL 234
AMERICAN DRAMA 3.0
American drama chosen for excellence or representative of a significant era or movement in the theatre from the early 18th century imitative works through melodrama to the serious works of the 20th century. Centered on major American playwrights and their work. The course also examines the backgrounds of our modern stage, including readings in minor/historical works.

ENGL 238
AFRO-AMERICAN WRITERS 3.0
Major Afro-American writers from colonial times to the present. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

ENGL 240
ENGLISH LITERATURE I: BEGINNINGS TO 1660 3.0
English literature from its beginnings to 1660 examined through representative works of major and minor authors.

ENGL 241
ENGLISH LITERATURE II: 1660 TO PRESENT 3.0
English literature from the Restoration to the present. May be taken independently of English Literature I.

ENGL 247
THE AUGUSTAN AGE 3.0
Important works of English literature 1660-1745, including poetry, criticism, essays, fiction and drama, examined within the literary, cultural, social and intellectual contexts of the age.

ENGL 250
SPECIAL TOPICS IN ENGLISH OR AMERICAN LITERATURE 3.0
A survey or genre course on a topic not included in the regular departmental offerings. May be used by English majors as a departmental elective.
Prerequisite: ENGL 106 or equivalent.

ENGL 254
ENGLISH DRAMA: BEGINNINGS TO 1642 3.0
English drama from its medieval origins to the closing of the theaters in 1642; from miracles, mysteries and moralities through the development of Tudor and Stuart drama. Shakespeare excluded.

ENGL 256
ENGLISH NOVEL TO 1900 3.0
Form and theme of the English novel through the 18th and 19th centuries, evaluated by literary, social, moral and cultural criteria.

ENGL 260
ART OF POETRY 3.0
An introductory course in reading, interpreting, and evaluating poetry. Attention is paid to style, form, and poetic convention.

ENGL 262
ART OF FICTION 3.0
An introduction to form and techniques in fiction through close reading and discussion of representative texts.

ENGL 263
ART OF DRAMA 3.0
An introduction to dramatic literature and the ways in which man expresses himself and his community through drama as a blend of word and gesture.

ENGL 294
WOMEN POETS 3.0
Selected poets from Sappho through Emily Dickinson to Sylvia Plath examined in relation to contemporary women poets. Meets the Multicultural Awareness Requirement.
Prerequisite: ENGL 260.

ENGL 324
AMERICAN POETRY TO 1940 3.0
American poetry from Poe to Langston Hughes with an emphasis on what makes the American voice unique.

ENGL 325
AMERICAN POETRY: WW II TO PRESENT 3.0
American poetry beginning with William Carlo Williams and continuing to the present with an emphasis on new attitudes, techniques and contributions to American culture.

ENGL 326
EARLY AMERICAN LITERATURE 3.0
American literature from the Puritans to 1800, tracing the development of colonial and revolutionary thought and the beginning of America's cultural independence.

ENGL 336
AMERICAN LITERARY REALISM 3.0
The works of James, Howells, Twain, Crane, Norris, Dreiser and others are examined in light of the developing literary concepts of realism, naturalism and social Darwinism in the changing cultural period between 1860 and 1900.

ENGL 337
MODERN AMERICAN FICTION 3.0
American fiction from 1918 to 1945 with attention to the works, criticism and lives of such authors as Hemingway, Faulkner and Fitzgerald.

ENGL 338
CONTEMPORARY AMERICAN FICTION 3:0
Developments in American fiction since the 1940's with attention to such authors as Mailer, Roth, Nabokov and Vonnegut.

ENGL 343
MILTON 3.0
An introduction to the mind and art of Milton. Intensive study of one major work and selections representative of the full range of his achievement.

ENGL 344
CHAUCER 3.0
Troilus and Criseyde, The Canterbury Tales and some of the minor poems in Middle English. No previous language training required.

ENGL 345
MIDDLE ENGLISH LITERATURE 3.0
The literature of England from 1100 to 1400, in its historical and social contexts and in relation to continental literature. Where appropriate, works are read in Middle English.

ENGL 346
19TH CENTURY ENGLISH ROMANTIC LITERATURE 3.0
The revolutionary expression of such poets and essayists as Wordsworth, Coleridge, Shelley, Byron, Keats, Hazlitt, De Quincey and Lamb.

ENGL 347
VICTORIAN PROSE AND POETRY 3.0
Mid and late 19th century responses to the emergence of modern British society demonstrated in the works of Carlyle, Mill, Ruskin, Huxley, Newman, Arnold, Morris, Tennyson and Browning.

ENGL 348
RENAISSANCE LITERATURE 3.0
Major poets and prose writers of 16th and early 17th century England such as Sydney, Lyly, Nashe, Greene, Donne and Browne, whose individual contributions in poetry and prose reflect the literary and philosophical preoccupations of the period.

ENGL 353
SHAKESPEARE: COMEDIES-HISTORIES 3.0
Representative comedies and histories: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's vision of man as actor.

ENGL 354
SHAKESPEARE: TRAGEDIES-ROMANCES 3.0
Representative tragedies and romances: their sources, devices and characteristics; their staging in the context of Elizabethan society; and Shakespeare's view of man in the tragic mode and in the later romances.

ENGL 364
CONTEMPORARY POETRY 3.0
Distinctive movements in poetry since the imagists, comparing the diverse styles, themes and poetic theories of representative poets of English-speaking countries.

ENGL 370
ENGLISH INDEPENDENT STUDY I 2.0-3.0
A scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in that field of interest.
Prerequisite: Junior or Senior standing with prior permission of the specialist and the English Department.

ENGL 371
ENGLISH INDEPENDENT STUDY II 2.0-3.0
A second scholarly interest beyond the scope of a presently offered course pursued under the direction of a specialist in that field of interest or a study begun in ENGL 370 that continues for a second term.
Prerequisite: Successful completion of ENGL 370 and prior permission of the specialist and the English Department.

ENGL 401
OLD ENGLISH LANGUAGE AND LITERATURE 3.0
Selected prose and poetry representative of the heroic, elegiac, religious and popular traditions of pre-conquest England, with recitation and reading in the original old English. No previous language training required.

ENGL 444
17TH CENTURY ENGLISH POETRY 3.0
The schools of Donne and Jonson and the works of Marvell and Dryden. Milton excluded.

ENGL 446
IRISH RENAISSANCE PERIOD LITERATURE 3.0
Irish romanticism, naturalism, symbolism and realism in the works of Joyce, Shaw, Yeats and others from the late 1890's to the 1930's.

ENGL 455
RESTORATION AND 18TH CENTURY DRAMA 3.0
Major innovation of dramatic form and conventions in the period from 1660 to 1715 on the English stage in the works of Etherege, Wycherley, Congreve, Vanbrugh and Dryden.

ENGL 456
20TH CENTURY ENGLISH NOVEL 3.0
The literary and cultural context and the stylistic and structural changes in representative British novels of the 20th century.

ENGL 471
TEACHING ENGLISH (SECONDARY) 4.0
Communicating both the discipline and the human dimensions of English as a subject in the classroom, including familiarization with adolescent literature and the uses of computers in the English classroom. A course in the professional sequence not credited to the English major requirements.
Prerequisites: Concurrent or completed intermediate field experience (CURR 410) and permission of the English teacher education coordinator.

ENGL 493
SEMINAR IN AMERICAN LITERATURE 3.0
The works of one major American author in depth or of a group of authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or permission of the instructor.

ENGL 494
SEMINAR IN ENGLISH LITERATURE 3.0
The works of one major English author in depth or of a group of English authors whose works are related by theme, artistic form or cultural period. Enrollment limited.
Prerequisite: Junior or senior English majors or permission of the instructor.

ENGM 384
THE GRAMMARS OF ENGLISH 3.0
A critical overview of traditional, structural, and transformational-generative approaches to the problems of analyzing the grammar of the English language; practical applications for teaching English and for understanding grammatical principles as a means of more effective writing and literary analysis. This course is cross listed with LNGN 384.

ENID 297
LITERATURE AND SOCIOLOGY 3.0
Through a study of certain works of recent American literature and of sociology, the course examines the impact of sociological ideas on literary culture and the relationship between the world of fictional works and the "real world" as revealed through sociological examination.

ENID 298
LITERATURE AND PSYCHOLOGY 3.0
Major modern depth psychologies-Freudian, Jungian, Adlerian-in their world-wide literary portrayal of human character and action through investigating such issues as the alienated individual, love and marriage, parents and children, and the quest for selfhood.

ENID 397
BIOGRAPHY 3.0
Sources of biography in letters, diaries, memoirs. A study of biographies from medieval England to contemporary times with an emphasis on changing concepts of form and on revelations of the nature of character.

ENID 398
AUTOBIOGRAPHY 3.0
Autobiographical readings, especially in letters, diaries, and journals, from ancient times to the present. Emphasis on the aesthetics of autobiography, autobiography as the mirror of an age, and autobiography as a model of the examined life.

ENLT 176
WORLD LITERATURE: THE COMING OF AGE THEME 3.0
This course combines Western with non-Western works to approximate an approach to a "global perspective" on literature. It is designed to introduce the student to major works of world literature; to foster an international literary sensibility; to present a variety of cultural perspectives in a context which demonstrates how they are interrelated: to present students with assignments that will direct them toward developing skills of literary analysis and interpretation; and to guide students in deepening their awareness of the connections between national literatures and their cultural contexts. Meets the General Education Requirement - Humanities, World Literature.

ENLT 177
WORLD LITERATURE: VOICES OF TRADITION AND CHALLENGE 3.0
Organized around the premise that writers have two fundamental ways of responding to the challenge of their culture, conformity or dissent, this course will present literary works in pairs that represent opposing ways of responding to the same subject. Meets the General Education Requirement—Humanities, World Literature.

ENLT 250
SPECIAL TOPICS IN COMPARATIVE LITERATURE 3.0
A survey or genre course on a topic not included in the regular departmental offerings. Satisfies the departmental major requirement in comparative literature.
Prerequisite: ENGL 106 or equivalent.

ENLT 260
MYTH AND LITERATURE 3.0
Myth and the myth-making process: the origins, meanings and major archetypes and motifs of occidental and oriental myths.

ENLT 366
AFRICAN MYTH AND LITERATURE 3.0
The nature of the Sub-Saharan experience and vision through African myths and literary works within the context of culture, criticism and theory. Meets the Multicultural Awareness Requirement.

ENLT 372
WOMEN PROSE WRITERS 3.0
Readings in the international fiction and non-fiction of women writers. The focus will be on such themes as the nature of the family, changing relationships between women and men, evolving concepts of the "feminine," the impact of colonialism on gender related issues (i.e., work and women's identity) and interrelationships between religion and women's lives.

ENLT 373
LITERARY MODERNISM 3.0
The intellectual concepts of Futurism, Dada, Surrealism and Expressionism in the early 20th century, which continue to influence literature and art.

ENLT 374
CONTEMPORARY EUROPEAN DRAMA 3.0
Plays representing the themes, values and dramatic techniques of selected British and continental (French, German, Italian, Russian and/or other) dramatists.

ENLT 375
MODERN DRAMA: IBSEN TO O'NEILL 3.0
Major modern plays and the playwrights whose critical insights and historical perspectives led to their unique contributions.

ENLT 376
MODERN EUROPEAN NOVEL 3.0
The creative expression of such novelists as Gide, Hesse, Kafka, Proust and Woolf as shaped by events of the period 1910 to 1930, and how these works influenced the future of the novel.

ENLT 377
SPECULATIVE FICTION: FANTASY 3.0
The impossible and improbable in fairy tales, myth, legend, horror, sword and sorcery, the supernatural and high fantasy as a critical mode. Technological science fiction excluded.

ENLT 378
SCIENCE FICTION 3.0
Fiction of the future that speculates and extrapolates from the physical and social sciences, selected from both the classics and contemporary writings.

ENLT 463
HISTORY OF CRITICISM 3.0
The modes of critical thought expressed by major figures in the classical era, their imitators and interpreters in the renaissance and neo-classic period, the innovators among the romantics, and critics of the 20th century.

ENLT 464
MODERN POETRY TO T.S. ELIOT 3.0
Works of the French symbolists and the Georgian and Imagist poets of Britain, the continent and America whose theories and principles underlie modern poetics.

ENLT 492
SEMINAR IN COMPARATIVE LITERATURE 3.0
A culture, era, theme or literary approach studied through international literary masterpieces. Enrollment limited.
Prerequisite: Junior or Senior standing English majors or instructor's permission.

ENWR 200
CREATIVE WRITING: FICTION, POETRY, DRAMA 3.0
Writing as a creative process with explorations in poetry, drama, fiction and autobiography.
Prerequisites: ENGL 105 or instructor's permission.

ENWR 204
ADVANCED EXPOSITORY WRITING 3.0
A course designed to help general students improve their expository writing beyond the level of skill developed in the freshman composition course. Particular emphasis will be placed on argument and persuasion.
Prerequisite: ENGL 105.

ENWR 205
WRITING: NONFICTION PROSE 3.0
Advanced writing skills with stress on developing a personal writing style, adapting writing style to various subjects and audiences and experimenting with different modes of exposition.
Prerequisites: ENGL 105, instructor's permission.

ENWR 206
BUSINESS WRITING 3.0
Writing skills essential to the world of work with emphasis on correspondence, analytical reports and proposals.

ENWR 207
TECHNICAL WRITING 3.0
Writing skills essential in technology, science and industry with emphasis on mechanism and process description, analysis of data, recommendation proposals and formal reports.

ENWR 210
NEWSWRITING 3.0
Writing news articles according to contemporary practices. Interviewing techniques are explored as well as a respect for facts, impartiality, and fairness.
Prerequisite: Instructor's permission.

ENWR 211
ADVANCED NEWS REPORTING: FIELD EXPERIENCE 4.0
Combines classroom instruction with extensive off-campus (often evening) field work. Students will have their own reporter "beats" covering various municipalities near MSC on a weekly basis. "Beats" will include town council, city boards and agencies, police, courts, etc. Breaking news stories written to tight deadlines, as well as major analytical pieces. Intense discussion of actual reporting problems encountered in the field: making contacts, using unnamed sources, dealing with officials, canvassing neighborhoods, etc. Emphasis on students' initiative working on their own and relentless follow-through.
Prerequisite: ENWR 210, instructor's permission.

ENWR 214
FEATURE WRITING 3.0
All aspects of writing personality profiles and of writing critical reviews, columns and/or sports features.
Prerequisite: ENWR 210.

ENWR 216
HISTORY OF JOURNALISM IN AMERICA 3.0
Evolution of the American press is examined through research and discussion of significant periods, individuals and issues from 1600 to the present.

ENWR 250
SPECIAL TOPICS IN WRITING 3.0
A course in writing not included in the regular departmental offerings. May be used by English majors as a departmental elective.
Prerequisite: ENGL 105 or equivalent.

ENWR 300
MEET THE PRESS 3.0
Study of issues and problems in modern journalism through lectures and by writings of working journalists.
Prerequisite: ENWR 210.

ENWR 301
COOPERATIVE EDUCATION (ENGLISH) 8.0
An outside the classroom English supervised employment experience related to academic study. Not included in major requirements.
Prerequisites: Permission of English faculty coordinator and the Office of Cooperative Education.

EMWR 310
WRITING: DRAMA 3.0
Writing and evaluating dramatic dialogue with consideration of the problems of form, characterization and action. Usually students will complete a one-act play.
Prerequisite: ENWR 200 or instructor's permission.

ENWR 311
WRITING: FICTION 3.0
Fundamentals and techniques of writing prose fiction (stories and/or novels), with evaluations in class and extensive individual conferences.
Prerequisite: ENWR 200 or instructor's permission.

ENWR 312
WRITING: POETRY 3.0
Techniques and fundamentals of writing poetry through writing, reading, and professorial evaluations.
Prerequisite: ENWR 200 or instructor's permission.

ENWR 313
EDITING 3.0
Copy editing, proofreading and basic editorial skills. Articles are analyzed for accuracy, libel, precise diction and tightening.
Prerequisites: ENWR 210, or 214, instructor's permission.

ENWR 314
ADVANCED EDITING 3.0
Techniques learned in editing are reinforced. Layout, headlines and production are explored. Rewriting and fitting articles are worked on extensively.
Prerequisite: ENWR 313

ENWR 315
MAGAZINE JOURNALISM 3.0
Researching, writing and placing feature stories in mass circulation magazines.

ENWR 316
REPORTING OF PUBLIC AFFAIRS 3.0
News articles on the activities of government at the local level, including writing reports on the proceedings of civil and criminal court and city/county executive councils.
Prerequisite: ENWR 210, 214, or 313 or permission of instructor.

ENWR 407
ADVANCED LITERARY ANALYSIS 3.0
Writing of interpretive essays; applying traditional and contemporary critical approaches to selected works. Responding to them in scholarly writing.

ENWR 410
ADVANCED WRITING: DRAMA 3.0
Writing of one-act and/or full-length plays wit intensive class analyses and individual conferences.
Prerequisites: ENWR 310 and/or instructor's permission.

ENWR 411
ADVANCED WRITING: FICTION 3.0
Writing of prose with intensive class analyses and individual conferences.
Prerequisite: ENWR 311 or instructor's permission.

ENWR 412
ADVANCED WRITING: POETRY 3.0
Writing of poetry with intensive class analyses and individual conferences.
Prerequisite: ENWR 312 or instructor's permission.

ENWR 416
INTERPRETIVE JOURNALISM 3.0
Studying and writing columns, editorials and news articles. Students will compare different styles of interpretive reporting and develop their own skills in this area.
Prerequisite: ENWR 210 or equivalent course.

ENWR 491
SEMINAR IN WRITING 3.0
Creative writing, expository writing or theories of the teaching of composition for the advanced student. Enrollment limited.
Prerequisites: Junior or senior English majors and/or permission of instructor.

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Harbans Singh

The department offers a geography major leading to the Bachelor of Arts degree and a minor in urban studies. There are three specializations which are applied in their nature and lead to careers in fields, such as, environmental management, city and regional planning, community development, economic development, transportation planning, real estate development. The specializations include environmental studies, urban studies, and geography and regional analysis.

In the specializations, the teaching emphasis is on the formulation of concepts and theory, analysis of environmental and census data, data presentation techniques, interrelationships between human and natural elements, locational analysis and environmental and urban problem solving.

Environmental studies attempts to develop a systematic understanding of the environmental factors related to life. Natural factors, such as water, air, land, biota, are studied in the context of socio-cultural, technological and behavioral factors. All aspects of environmental resources, environmental management and pollution are analyzed.

Urban Studies prepared students with technical skills to fully comprehend the process of modern urban growth and development. Urban location, development, management and planning are emphasized.

Geography and Regional Analysis is the study of the synthesis of all natural, physical and cultural elements found in various regions of the earth. Synthesis of regional attributes is stressed.

An important feature of these specializations is the full semester, off-campus internship which enables students to work in public and private agencies as planners.

Geography Major— Urban Studies Concentration

Required Courses

		Semester Hours
EUGS 100	Principles of Geography	3
EUGS 101	Human Geography	3
OR		
EUGS 102	World Geography	3
EUGS 206	Introduction to American Urban Studies	3
EUGS 309	Research Methods	3

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21

Urban Studies Minor

Required Courses

EUGS 206	Introduction to American Urban Studies	3
EUGS 462	People and Cities: Comparative Urban Studies	3
EUGS 463	Internship	12
EUGS 464	Senior Seminar in Urban Studies (Urban Studies Internship)	3

Courses of Instruction

ENVR 409
ENVIRONMENTAL LAW 3.0
The study of the National Environmental Policy Act; the Environmental Impact Statement; the Clean Air Act; the Clean Water Act; Toxic Substances Control Act; Solid and Hazardous Waste; related environmental laws, i.e., OS&H act; and litigation are analyzed. Aspects of environmental law, within which institutions and corporations must operate, are discussed.

EUGS 100
PRINCIPLES OF GEOGRAPHY 3.0
The course studies the major elements of the natural environment and their interrelation. The principles and processes essential to the understanding of the natural environmental system and their significance are stressed. The elements studied include: atmosphere, weather and climate, continents, landforms, river systems, ocean currents and tides, soils, vegetation, animal and marine life. Meets the General Education Requirement - Natural Physical Science, Non-Laboratory Science Only.

EUGS 101
HUMAN GEOGRAPHY 3.0
This course is a study of human-environment interactions. It assesses the worldwide distribution of population, religion, language, family structure and socio-economic systems. The synthesis of these elements in the development of various societies is studied. Meets the General Education Requirement - Social Science, Survey Course.

EUGS 102
WORLD GEOGRAPHY 3.0
World geography aims to present essential facts and concepts about the natural and human environment of major regions and countries. The course presents a picture of regions as developed through the interactions of natural, cultural, economic and political forces. Geopolitical, social and economic relationships between and among countries are studied. Meets the General Education Requirement - Social Science, Topic Course.

EUGS 109
THE HUMAN ENVIRONMENT 3.0
An interdisciplinary course which examines man's relationship to his natural environment, his reliance on it, his view on it, and his changes in it, and future human and environmental projections. Meets the General Education Requirement - Contemporary Issues.

EUGS 201
CLIMATOLOGY 3.0
Basic climate elements examined in terms of their influence on habitats and various aspects of human activities. The energy flux between atmosphere and biosphere affords a fundamental understanding of limitations in ecosystems development. Knowledge and climatic influences on health, clothing, human comfort, architecture, commerce and industry encourages the student to investigate new ways of living rationally within a climatic environment.

EUGS 202
GEOGRAPHY OF ANGLO-AMERICA 3.0
Provides an understanding of the development of cultural, physical and economic landscape of the United States and Canada. Emphasizes elements of rapid change: urbanization, industrial growth, transportation, trade patterns, distribution of population and modern agriculture.

EUGS 203
OUR FINITE EARTH: POPULATION AND RESOURCES 3.0
Implications of the population explosion and the rising rate of resource consumption. Focuses on the alternative ways various societies can achieve equilibrium between population and economic development within the framework of limited world resources.

EUGS 204
PRINCIPLES OF LAND USE 3.0
Geographical analysis of rural and urban land use patterns in the United States. Fieldwork stresses mapping techniques and socio-economic aspects of urban land use in the New York-New Jersey metropolitan area.

EUGS 206
INTRODUCTION TO AMERICAN URBAN STUDIES 3.0
An interdisciplinary introduction to the development of American cities, with an emphasis on current patterns of urbanism and urbanization. The growth and evolution of urban structures, emerging urban and suburban cultural styles, and responses to critical urban issues will be explored. Meets the General Education Requirement - Social Science, Topic Course. Meets the Multicultural Awareness Requirement.

EUGS 209
URBAN DESIGN AND ARCHITECTURE:
AMERICAN CITYSCAPE 3.0
The evolution of American urban form and architecture from the colonial town to the contemporary metropolitan region; city plans and the emergence of professional planning; the architect and the urban environment cultural values and changing urban forms and new town design.

EUGS 252
HYDROLOGY 3.0
Water, its availability, distribution and usefulness. Hydrologic cycle examined in detail. Interaction with man and his usage. Applications to models and systematic processes. Also listed as GEOS 252.

EUGS 300
WORLD RESOURCES AND INDUSTRIES 3.0
Distribution, flow and consumption of mineral resources. Political, economic and social implications of the geography of resources. Basic studies in industrial location, agricultural land use, problems of economic development and population-resource ratios. Examines world trend in production controls and market allocations.

EUGS 304
GEOGRAPHY OF EUROPE 3.0
The modern European landscape created by the activities, over many centuries, by a variety of peoples of differing cultural backgrounds, economic systems and ideologies.

EUGS 305
GEOGRAPHY OF EAST AND SOUTHEAST ASIA 3.0
Regional analysis of East Asia (China, Japan) and Southeast Asia (Malaya, Indonesia) the physical and cultural landscape and the problems of economic development.

EUGS 306
GEOGRAPHY OF SOUTH ASIA 3.0
Political, cultural and economic study of India. Pakistan and Bangladesh; interrelationship between cultural and physical aspects of the regional landscape.

EUGS 308
LAND AND LIFE IN LATIN AMERICA 3.0
The course emphasizes the origin and development of Latin America's cultural landscape. It examines critically the natural endowment, social and political institutions and economic potentials of Latin American countries. Relationships among the Latin American states and with the United States are presented. Meets the General Education Requirement - Social Science, Topic Course. Meets the Multicultural Awareness Requirement.

EUGS 309
RESEARCH METHODS 3.0
The course introduces a widely used statistical package to analyze data. The application and interpretation of results of frequently used statistical techniques remains the primary focus. Survey research techniques are stressed. All the steps in the completion of a research project are emphasized.

EUGS 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1800. Also listed as HIST 312.

EUGS 313
URBAN GEOGRAPHY 3.0
The course focuses on the structure and growth of metropolitan areas of the United States. The location of land uses, social and economic activity, employment and housing are studied. Current urban predicaments and public policy initiatives are evaluated. World cities and urbanization are analyzed in comparative perspective. Meets the General Education Requirement - Social Science, Topic Course. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

EUGS 317
MANAGING THE URBAN ENVIRONMENT 3.0
An advanced interdisciplinary investigation of the modern city and its suburbs, emphasizing the impact of selected social, political and economic issues.

EUGS 330
CULTURE IN TRANSITION IN INDIA:
AN ANTHROPO-GEOGRAPHICAL APPROACH 3.0
India in its geographical and socio-anthropological setting. The course focuses on the nature and processes bringing about transition in traditional values and social institutions. Also listed as ANTH 330.

EUGS 331
URBANIZATION AND ENVIRONMENT 3.0
Examines interaction between man and the physical urban environment. Studies dynamic and physical processes as related to air, water and noise pollution, and hydrologic and geologic hazards.

EUGS 352
FLUVIAL GEOGRAPHY 3.0
Detailed study of streams and rivers emphasizing processes causing variations of size and shape; the morphology of streams and stream channels; processes, quantitative techniques. Also listed as GEOS 352.

EUGS 360
ENVIRONMENTAL GERONTOLOGY 3.0
This course examines the social, political, economic and spatial impacts of the older adult on the environment. Topics discussed are: demographic characteristics and environmental design of senior leisure and housing environments; migration patterns; mobility, and location of older adults; and the planning, site location, design, and financing of independent and assisted adult living environments.

EUGS 404
GEO-ECOLOGY 3.0
Spatial relations of the living environment. A systems approach to functional processes, characteristics and relationships of the ecological elements, i.e. soil, water, air, vegetation, etc. Both natural succession and man-induced changes including pollution, within the ecosystem.

EUGS 405
COMPUTER MAPPING 3.0
The course introduces a widely used computer mapping software to make thematic customized maps. Presentation of data in the form of a graph and a chart is also stressed. General cartographic principles are emphasized.

EUGS 408
GEOPOLITICS 3.0
Main theories of the field and their application to selected political entities, current problem zones and the spatial interaction of nations.

EUGS 409
URBANIZATION IN WORLD PERSPECTIVE 3.0
Analysis of characteristics and patterns of urbanism and urbanization in world perspective. Studies multi-faceted problems created by rapid urbanization. Examines role of cities in regional development and modernization of rural sector in Third World.

EUGS 412
GEOGRAPHY OF SUB-SAHARA AFRICA 3.0
Topical and regional study of African soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

EUGS 413
GEOGRAPHY OF THE MIDDLE EAST 3.0
Topical study of area extending from Morocco to Iran: arid land agriculture, nomadism, land tenure systems, settlement patterns, problems of industrial development, and socio-economic and military implications of region's oil wealth. Includes Arab culture and Islamic influences on urban and rural landscapes. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

EUGS 417
REAL ESTATE PRINCIPLES 3.0
In this course the student is introduced to the principles of real estate from an historical, social, economic, legal and spatial perspective. The topics explored are: urban-suburban development and the real estate product; the changing nature of real estate through planning, zoning, environmental and social considerations; real estate economics and demographics from a national, local and individual parcel level; and a detailed study of the legal instruments and concepts involved in residential, commercial and industrial real estate transactions.

EUGS 418
ADVANCED REAL ESTATE 3.0
This course builds on the fundamental principles introduced in EUGS 417 and explores the following new topics: mortgage finance; market demand analysis for residential, retail commercial, office and industrial land use; location and site planning theory and analysis; real estate investment analysis and appraisal techniques; real estate research sources and methods; and public policy impacts on real estate.
Prerequisite: EUGS 417

EUGS 419
GEOGRAPHY OF THE SOVIET UNION 3.0
Topical and regional analysis. Emphasizes demographic-ethnic composition of soviet people, physical resource base, interregional relationships, and spatial effects of state planning programs.

EUGS 424
GEOGRAPHY OF NEW JERSEY 3.0
Demographic and economic organization of the state. Spatial contrasts in population density: suburban-central city interactions; the influence of New York and Philadelphia on landscape organization. Philosophical concepts of regionalism and investigation of micro-regionalism in New Jersey.

EUGS 425
READINGS IN GEOGRAPHY 3.0
Open only to geography honor students. Students will be expected to read a number of the more definitive words in modern geography. Examination will be both oral and written.

EUGS 426
INDEPENDENT STUDY IN GEOGRAPHY 1.0-4.0
Preparation of a research paper or project to be presented to members of the staff.
Prerequisite: Junior and senior majors only.

EUGS 427
PRO-SEMINAR IN GEOGRAPHY 3.0
Problem-oriented seminar. Specific topics in urban, environmental studies or geography. Content changes according to the needs of the instructor.

EUGS 452
GEOHYDROLOGY 3.0
Ground water study: migration, chemistry and relation to the environment. Darcy's Law, soil porosity, soil permeability and well systems. Water pollutants and salt water incursions; spatial distributions and processes.
Also listed as GEOS 452.

EUGS 455
FUNDAMENTALS OF REMOTE SENSING OF ENVIRONMENT 3.0
Systematic study of multiband spectral reconnaissance of the environment; multifrequency radar systems and their users. Also listed as GEOS 455.
Prerequisite: 9 semester hours of geography or geoscience.

EUGS 456
HYDROCLIMATOLOGY 3.0
Climatology emphasizing moisture as one of the fundamental factors in climatic analysis; processes and problems of classification and variability. Examines energy and water balance. Also listed as GEOS 456.

EUGS 460
URBAN PLANNING 3.0
The course focuses on the principles, processes, and practices of urban planning. The formulation of policies and the management roles of the planning agencies are emphasized.

EUGS 462
PEOPLE AND CITIES: COMPARATIVE URBAN STUDIES 3.0
Introduction and cross-cultural investigation of the processes of urbanism and urbanization: formation, structure and functioning of cities throughout the world. Also listed as ANTH 462.

EUGS 463
INTERNSHIP 3.0-12.0
A full semester internship in an urban or environmental agency. Students will be expected to carry out agency assignments, observe and participate in decision making processes and engage in middle management activities.
Prerequisite: At least 24 semester hours in the major.

EUGS 464
SENIOR SEMINAR IN URBAN STUDY (URBAN STUDIES INTERNSHIP) 3.0
A seminar to be taken in conjunction with the urban studies semester internship, and designed as a synthesis of the various approaches in urban studies which the student has acquired in previous urban-related courses. Each semester the seminar focuses upon a specific in-the-field research project, and an analysis and evaluation of the student's internship experience.
Prerequisites: EUGS 206, 462.

EUGS 465
HONORS RESEARCH 3.0
Provides original research experience to superior undergraduates.
Prerequisites: Permission of chairperson, EUGS 309.

EUGS 470
GEOGRAPHIC INFORMATION SYSTEMS (G.I.S.) 3.0
This course deals with fundamental principles and applications of G.I.S. Various ways in which G.I.S. can be used in planning and management analysis and research will be discussed. Students will learn the issues which need to be considered when planning and implementing G.I.S. One or two widely used software packages will be employed as a tool to study G.I.S. applications.

FINE ARTS

SCHOOL OF FINE AND PERFORMING ARTS
Chairperson: Anne Betty Weinshenker

The Fine Arts Department offers a Bachelor of Arts and a Bachelor of Fine Arts degree.

The B.F.A. degree program is a pre-professional program with specialization in ceramics, drawing, fabrics, filmmaking, graphic design, illustration, jewelry, multi-media, painting, papermaking, photography, printmaking and sculpture. Courses in each specialization give intensive pre-professional experience preparing students for involvement as artists, graphic designers and illustrators.

The B.A. is a liberal arts degree with three programs: Studio, Art History and Art Education. The program in Studio is for students interested in liberal arts with a rich studio experience specializing in the same areas as those in the B.F.A. program. The Art History program is for students interested in the historical development of art. The program in Fine Arts Education leads to certification to teach in public schools and is intended for students who want to teach art in schools, museums and community centers.

All students, except those interested in the Art History Program, must successfully complete a portfolio review for admission, in addition to meeting the college requirements.

Studio (BA)

A liberal arts program for students who want a studio concentration.

Required Courses

			Semester Hours
ARGN	101	Design/Foundations of Visual Organizations I	3
ARGN	102	Design/Foundations of Visual Organizations II	3
ARHS	105	Art in Western Civilization: Ancient and Medieval	3
ARHS	106	Art in Western Civilization: Renaissance to Modern	3
ARHS	451	Contemporary Art	3
ARGN	107	Drawing I	3
ARGN	201	Color Studies I	3
ARGN	220	Life Drawing I (May substitute ARPR 350 Illustration I: Survey of Concepts and Methods for graphic design emphasis.)	3
Art History Electives			6

Select 6 semester hours from 2 of the following categories:

1. Ancient Art through Medieval
2. Renaissance through Baroque (15th through 18th centuries)
3. 19th or 20th Century
4. Non-Western

Electives (Departmental)

Select 15 semester hours after advisement by the department. Include 3 sequential courses in same area of specialization (e.g. Sculpture I, II, III). Exhibition Workshop I (AREX 489) is strongly recommended.

Studio (BFA)

A preprofessional program for students who seek preparation as artists.

Required Courses

			Semester Hours
ARGN	101	Design/Foundations of Visual Organization I	3
ARGN	102	Design/Foundations of Visual Organization II	3
ARGN	107	Drawing I	3
ARGN	201	Color Studies I	3
ARGN	220	Life Drawing I (May substitute ARPR 350 Illustration I: Survey of Concepts and Methods for graphic design emphasis.)	3
ARHS	105	Art in Western Civilization: Ancient and Medieval	3
ARHS	106	Art in Western Civilization: Renaissance to Modern	3
ARHS	451	Contemporary Art	3
Major Studio Courses			15
Elected Studio Courses*			30
Art History Electives			6
ARGN	425	Major Studio Project I (B.F.A.)	3
ARGN	450	Major Studio Project II (B.F.A.)	10
ARPT	215	Art Forum	3
ARHS	462	Senior Seminar	3

*Up to 12 semester hours of electives other than studio may be applied if the student receives the prior approval of the B.F.A. Coordinator.

Art History (BA)

A liberal arts program for students whose interest is in the study of the history and development of the art of mankind in all its variations from antiquity to the twentieth century.

Required Courses

			Semester Hours
ARGN	101	Design/Foundations of Visual Organization I	3
ARGN	102	Design/Foundations of Visual Organization II	3
ARHS	105	Art in Western Civilization: Ancient and Medieval	3
ARHS	106	Art in Western Civilization: Renaissance to Modern	3
ARHS	200	Resources and Methods of Research in the Arts	3
Ancient Art History course			3
Medieval Art History course			3
Renaissance Art History course			3
Baroque Art History course			3
19th century Art History course			3
20th century Art History course			3
Art History electives			6
Studio, Museum Practice, Externship			6

Required Collateral Courses

FREN	101 and 112	Beginning French I, II	6
OR			
ITAL	101 and 102	Italian I, II	6
OR			
LATN	101 and 112	Beginning Latin I, II	6
PHIL	260	Philosophies of Art	3
RELG	200	Old Testament: Genesis to Joshua	3
RELG	204	New Testament: Jesus and the Gospels	3
Theatre History Elective			3

Free Electives **7**
Exhibition Workshop I (AREX 489) is strongly recommended.

Note: It is recommended that the GER in General Humanities be filled by GNHU 285 Mythology, the GER in Foreign Language be filled by GERM 101/112 Beginning German I - II, and the GER in History be filled by one of the following:

HIST	103	Foundations of Western Civilization	3
HIST	105	Emergence of European Civilization, 1500-1914	3
HIST	106	Contemporary Europe, 1914 to the Present	3

Fine Arts Education (BA)

A degree program for students who wish to teach art in various settings including museums, community centers, and schools. Certification is for grades kindergarten through 12.

Required Courses

			Semester Hours
ARGN	101	Design/Foundations of Visual Organization I	3
ARGN	102	Design/Foundations of Visual Organization II	3
ARHS	105	Art in Western Civilization: Ancient and Medieval	3
ARHS	106	Art in Western Civilization: Renaissance to Modern	3
ARGN	201	Color Studies I	3
ARGN	107	Drawing I or ARGN 220 Life Drawing I	3
ARED	400	Foundations of Methods and Curriculum in Art Education II: K-12	3
ARPT	200	Painting I	3
ARMT	202	Ceramics: Pottery and Sculpture I	3
ARMT	204	Fibers and Fabrics I	3
ARGN	209	Theatre Arts I	3
ARPT	211	Sculpture I	3
ARGN	211	Graphic Design I: Foundation	3
ARPR	120	Introduction to Printmaking	3
ARMT	218	Metalwork and Jewelry I	3
ARPH	213	Photography I: A Contemporary Art Form	3

Electives (Departmental) **2**
Exhibition Workshop I (AREX 489) is strongly recommended.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Courses of Instruction

ARED 300
FOUNDATIONS OF METHODS AND CURRICULUM IN ART EDUCATION I: K-12 3.0
Philosophical and theoretical basis of fine arts education; the sources of creativity, concepts of visual literacy and the role of art in individual human experience and in society; organization and presentation of experience, curriculum construction and application of theory to the school, museum, community center, adult education and other teaching situations. For Fine Arts Education majors; this course must be taken simultaneously with Teacher, School and Society in the spring of the junior year.
Prerequisites: PSYC 101, 200; majors only.

ARED 400
FOUNDATION OF METHODS AND CURRICULUM IN ART EDUCATION II: K-12 3.0
Organization and presentation of art experiences for a wide variety of teaching situations, including K-12, adult classes, museum settings and community centers. Exploration of media, understanding their expressive range, proficiency in their use, and adaptation to various teaching goals. Integration of theory and media.
Prerequisite: ARED 300; majors only.

ARED 460
COMPUTER GRAPHICS AND NEW TECHNOLOGIES IN ART AND EDUCATION 3.0
Computer generated art and related technologies with direct personal experiences on the microcomputer. Overview of the uses of computer graphics in business, education, creative, artistic and scientific applications. Special emphasis on creative artistic uses for the teaching of art.

AREX 330
MUSEUM PRACTICE 3.0
A study of museum techniques, much of it at museums in the metropolitan area with the participation of their staffs. Field trips and, if possible, brief apprenticeships.

AREX 489
EXHIBITION WORKSHOP I 1.0
Exhibition techniques and procedures. Mounting of shows on campus.

AREX 490
EXHIBITION WORKSHOP II 3.0
Continuation of AREX 489.
Prerequisite: AREX 489.

ARFL 218
FILM MAKING I 3.0
Basic elements of super 8 film production: script, camera, lighting, sound, editing, animation. Meets the General Education Requirement - Electives, Creative Expression.

ARFL 219
FILM MAKING II 3.0
Basic elements of 16 mm film production. Script, camera, lighting, sound, editing, animation. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisites: ARFL 218, instructor's permission.

ARFL 221
VIDEO-TELEVISION AS AN ART FORM I 3.0
Students are introduced to criteria for aesthetic decision making by producing video projects that record the real world, persuade or move viewers to action, express the student's personal visions and illustrate aesthetic values. Students are given skills of video production and its relationship to visual aesthetics. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: Permission of instructor.

ARFL 222
VIDEO-TELEVISION AS AN ART FORM II 3.0
Continuation of ARFL 221.
Prerequisites: ARFL 221 and instructor's permission.

ARFL 299
HISTORY OF CINEMA AS ART 3.0
The development of the motion picture as an art form from its earliest stages to the present; the technical, social, economic, cultural and esthetic factors. May be repeated once for credit. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARFL 336
VIDEO-TELEVISION AS AN ART FORM III 3.0
Continuation of ARFL 222.
Prerequisites: ARFL 222 and instructor's permission.

ARFL 453
FILMMAKING III 3.0
Continuation of ARFL 219.
Prerequisite: ARFL 219.

ARFL 474
VIDEO-TELEVISION AS AN ART FORM IV 3.0
Continuation of ARFL 336.
Prerequisites: ARFL 336 and instructor's permission.

ARFL 491
INDEPENDENT STUDY IN FILM I 3.0
Topics selected with the approval of the instructor.

ARFL 492
INDEPENDENT STUDY IN FILM II 3.0
Topics selected with the approval of the instructor.
Prerequisite: ARFL 491.

ARFL 493
INDEPENDENT STUDY IN FILM III 3.0
Topics selected with the approval of the instructor.
Prerequisite: ARFL 492.

ARFL 494
INDEPENDENT STUDY IN FILM IV 3.0
Topics selected with the approval of the instructor.
Prerequisite: ARFL 493.

ARFL 499
FILM MAKING IV 3.0
Continuation of ARFL 453.
Prerequisite: ARFL 453.

ARGN 100
INTRODUCTION TO THE VISUAL ARTS 3.0
The ways in which man has expressed himself in the visual arts including painting, ceramics, sculpture, weaving, printmaking, architecture, the theater, motion pictures and photography, explored through studio work, demonstrations and trips to art sources. The nature and experience of art, their significance to the individual and their role in a culture. For non-majors. Meets the General Education Requirement-Fine and Performing Arts: Art Appreciation.

ARGN 101
DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION I 3.0
Required for art majors. This core course deals with the foundations of visual organization. It is structured to develop the student's vocabulary, both visual and verbal through studio experience, lectures and discussions. The student's perception is heightened by emphasis on light, line, color, plane, texture, form, shape, time as basic elements in all art forms. Two and three dimensional concepts are introduced through a variety of materials and processes. Reading assignments, museum and gallery visits are required.

ARGN 102
DESIGN/FOUNDATIONS OF VISUAL ORGANIZATION II 3.0
Continuation of ARGN 101. Required of all art majors.
Prerequisite: ARGN 101.

ARGN 103
VISUAL ARTS STUDIO I 3.0
The art forms (painting, sculpture, drawing, crafts) experienced through exploration of nature, found and manufactured materials. Creative experiences in studio work relating art to the student's primary area of knowledge; the part art experience can play in his life. For students with limited experience. Meets the General Education Requirement - Electives, Creative Expression.

ARGN 104
VISUAL ARTS STUDIO II 3.0
Continuation of ARGN 103. For students with limited experience. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisites: ARGN 103, instructor's permission.

ARGN 107
DRAWING I 3.0
Basic elements of line, point, shape, figure-ground, and space relationships. Meets the General Education Requirement - Electives, Creative Expression.

ARGN 201
COLOR STUDIES I 3.0
Color and its interaction through problems in color relatedness, systems and theories. Color usage, the development of skills in paint application, use of colored papers and techniques of presentation. Lectures, discussions reading assignments, museum and gallery visits.
Prerequisites: ARGN 101, 102, or instructor's permission.

ARGN 211
INTRODUCTION TO PAPERMAKING 3.0
Basic methods of making handmade paper as an art form; history and basic principles of handmade paper; contemporary directions and methods of forming.
Prerequisite: ARGN 101, or instructor's permission.

ARGN 212
GRAPHIC DESIGN I: FOUNDATION 3.0
Basic introduction to graphic design methods and techniques; understanding the conceptual base of graphic design as a problem-solving discipline; an overview of the history of graphic design including an introduction to current trends in the field and the major designers responsible for creating them.
Prerequisites: ARGN 101, 107.

ARGN 215
DRAWING II 3.0
Continuation of ARGN 107. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARGN 107.

ARGN 220
LIFE DRAWING I 3.0
The structure and proportions of the human form. Expressive drawing is emphasized. Meets the General Education Requirement - Electives, Creative Expression.

ARGN 275
DRAWING III 3.0
Continuation of ARGN 215.
Prerequisite: ARGN 215.

ARGN 280
LIFE DRAWING II 3.0
Continuation of ARGN 220. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARGN 220.

ARGN 301
COLOR STUDIES II 3.0
Continuation of ARGN 201.
Prerequisite: ARGN 201.

ARGN 311
INTERMEDIATE PAPERMAKING I 3.0
Continuation of ARGN 211. Two-dimensional and three-dimensional forms. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARGN 211.

ARGN 313
GRAPHIC DESIGN II:FOUNDATION 3.0
Basic introduction to typography, type comping and hand-lettering. Exploration of the relationship of word and image and its importance in the graphic design process and the elements of organization of typographic forms for power and visual impact.
Prerequisite: ARGN 212 or instructor's permission.

ARGN 314
INTERMEDIATE PAPERMAKING II 3.0
Continuation of ARGN 311. Two-dimensional and three-dimensional forms.
Prerequisite: ARGN 311.

ARGN 315
DRAWING IV 3.0
Continuation of ARGN 275.
Prerequisite: ARGN 275.

ARGN 340
DRAWING V 3.0
Continuation of ARGN 315.
Prerequisite: ARGN 315.

ARGN 350
INDEPENDENT STUDY 1.0-6.0
Topics for investigation selected with approval of the instructor.
May be repeated for credit.

ARGN 375
GRAPHIC DESIGN III: LAYOUT AND BEGINNING MECHANICALS 3.0
Basic introduction to the principles of layout including grid systems and their use. Introduction to methods used to turn a design idea into a finished printed piece including basic understanding of printing and beginning paste-up and mechanicals.
Prerequisites: ARGN 212, 313 or instructor's permission.

ARGN 400
INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATION I 3.0
Topics for investigation selected with the approval of the instructor.

ARGN 401
INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATION II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 400.

ARGN 402
INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATION III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 401.

ARGN 403
INDEPENDENT STUDY IN FOUNDATIONS OF VISUAL ORGANIZATIONS IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 402.

ARGN 404
INDEPENDENT STUDY IN DRAWING I 3.0
Topics for investigation selected with the approval of the instructor.

ARGN 405
INDEPENDENT STUDY IN DRAWING II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 404.

ARGN 406
INDEPENDENT STUDY DRAWING III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 405.

ARGN 407
INDEPENDENT STUDY IN DRAWING IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 406.

ARGN 411
ADVANCED PAPERMAKING I 3.0
Continuation of ARGN 314. Development of personal expression and direction in the body of work produced.
Prerequisite: ARGN 314.

ARGN 415
GRAPHIC DESIGN IV - ADVANCED LAYOUT AND PRODUCTION 3.0
Continuation of the exploration of the process of layout design including understanding the synthesis of photographic, illustrative, and typographic elements to successfully realize good design solutions. Advanced production including further exploration of printing methods, materials and advanced mechanicals and paste-up.
Prerequisite: ARGN 375, or permission of instructor.

ARGN 425
MAJOR STUDIO PROJECT I (B.F.A.) 3.0
With faculty advisement, each senior student will design and develop a studio project in a chosen area of specialization. The body of the work will be completed in Major Studio Project II.
Prerequisite: Permission of B.F.A. coordinator.

ARGN 440
ADVANCED PAPERMAKING II 3.0
Continuation of ARGN 411. Development of personal expression and direction in the body of work produced.
Prerequisite: ARGN 411.

ARGN 441
LIFE DRAWING III 3.0
Continuation of ARGN 280.
Prerequisite: ARGN 280.

ARGN 442
LIFE DRAWING IV 3.0
Continuation of ARGN 441.
Prerequisite: ARGN 441.

ARGN 443
INDEPENDENT STUDY IN LIFE DRAWING I 3.0
Topics for investigation selected with the approval of the instructor.

ARGN 444
INDEPENDENT STUDY IN LIFE DRAWING II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARGN 443.

ARGN 447
WORKSHOP IN PERFORMANCE ART 3.0
Study with master performance artists, developing skills in interdisciplinary creative forms of music, dance, visual arts and theatre with multi-media. Incorporation of the history of performance art and learning to use the latest technologies of video, film, synthesizers, and audio-visual projections to create an artistic statement. The artists-in-residence will direct and critique the students' performance work.

ARGN 450
MAJOR STUDIO PROJECT II (B.F.A.) 10.0
With faculty advisement, each senior student will complete and present a body of work in an area of extended specialization, the same area of specialization already established and explored in Major Studio I.
Prerequisite: ARGN 425; permission of B.F.A. coordinator.

ARGN 455
ADVERTISING DESIGN 3.0
An introduction to advertising methodologies and philosophies including an exploration of current trends and an overview of the history of advertising. The course will deal with how to take a product, come up with an unique concept and execute it creatively in a rough print ad or TV commercial.
Prerequisite: ARGN 415.

ARGN 460
GRAPHIC DESIGN V: ADVANCED PROBLEMS IN GRAPHIC DESIGN 3.0
Exploration of career objectives and how to obtain them. Preparation of finished portfolio pieces for the purpose of obtaining a position in the design field. Execution of professional stationery and resume.
Prerequisite: ARGN 415 or permission of instructor.

ARGN 465
EXTERNSHIP AND FIELD EXPERIENCE I 2.0-8.0
Involvement beyond the campus in a museum, art institution, or industry, participation in inner-city art programs, or study with an independent artist, or artist-craftsperson. Approval by a supervising faculty member required. Total semester hours from externship and field experience courses combined (ARGN 465, 466, 467, 468) shall not exceed 8 hours.
Prerequisite: Instructor's permission.

ARGN 466
EXTERNSHIP AND FIELD EXPERIENCE II 2.0-8.0
Continuation of ARGN 465.
Prerequisites: ARGN 465; instructor's permission.

ARGN 467
EXTERNSHIP AND FIELD EXPERIENCE III 2.0-8.0
Continuation of ARGN 466.
Prerequisite: ARGN 466; instructor's permission.

ARGN 468
EXTERNSHIP AND FIELD EXPERIENCE IV 2.0-8.0
Continuation of ARGN 467.
Prerequisite: ARGN 467; instructor's permission.

ARGN 470
ADVANCED COMPUTER GRAPHICS FOR THE GRAPHIC DESIGNER 3.0
Advanced problems in graphic design on the Macintosh computer. Emphasis will be placed on utilizing the Macintosh for solving design problems. Advanced page layout and graphic programs will be explored. Course is oriented toward the graphic designer.
Prerequisite: ARED 460.

ARGN 475
DRAWING VI 3.0
Continuation of ARGN 340.
Prerequisite: ARGN 340.

ARHS 105
ART IN WESTERN CIVILIZATION: ANCIENT AND MEDIEVAL 3.0
The history of Western art and architecture from prehistory through the Middle Ages. Included among others are the arts of Ancient Egypt and the Near East, Greece, Rome and early Christianity. Museum visits and extensive reading. Required for Fine Arts majors. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 106
ART IN WESTERN CIVILIZATION: RENAISSANCE TO MODERN 3.0
The history of Western art and architecture from the fifteenth century to the present. Included are the arts of the Renaissance, Baroque, Rococo, Romantic, Impressionist and Modern periods. Museum visits and extensive reading. Required for Fine Arts majors. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 108
WOMEN IN ART 3.0
The role and status of women in art from the Old Stone Age through the present; the special roles of women in the past in society, the role of women artists in Western culture from the Renaissance to the present; depictions of women in different iconographic categories; women as artists today. Meets the General Education Requirement—Fine and Performing Arts: Art Appreciation.

ARHS 200
RESOURCES AND METHODS OF RESEARCH IN THE ARTS 3.0
Bibliographic and other scholarly resources; the special problems of scholarship and research.

ARHS 215
ANCIENT ART 3.0
The origins of man's art and the civilizations of the ancient world; Paleolithic man and the Sumerian, Hittite, Assyrian, Phoenician and Egyptian civilizations. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 216
RENAISSANCE ART IN ITALY: THE FIFTEENTH CENTURY 3.0
The formation of Renaissance painting, sculpture and architecture during the Quattrocento; Masaccio, Mantegna, Donatello, Brunelleschi, and Alberti emphasized.

ARHS 217
SELECTED MASTERPIECES OF WORLD ART 3.0
An introduction to key works of art representing prehistoric cultures, the Ancient World, the East, the Renaissance, and the Modern period. Museum and gallery trips, reading and discussion. For non-art majors. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 220
ART IN NON-WESTERN SOCIETIES 3.0
A consideration of the role of art in traditional non-Western societies. Includes an examination of the integration of art into the society as a whole—the religions, economics, environment, and social order. The role art plays in social change and how it is affected by social change. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

ARHS 250
MODERN PHILOSOPHIES OF ART 3.0
The work of major writers about art in the nineteenth and twentieth centuries; the nature of the creative experience, the function of art in the life of the individual and of society, the nature of the creative process, the rise of new materials and institutions; the development of sentiments and attitudes affecting thinking in the field. Meets the General Education Requirement - Humanities, General Humanities.

ARHS 275
AFRO-AMERICAN ART 3.0
Afro-American art in the United States from colonial times to the present. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation. Meets the Multicultural Awareness Requirement.

ARHS 322
EARLY CHRISTIAN-BYZANTINE ART 3.0
The emergence and development of early Christian art from its classical and late classical antecedents and its development up to Byzantine art.

ARHS 323
MEDIEVAL ART 3.0
Painting, sculpture and architecture in the Romanesque and Gothic Periods.

ARHS 324
NORTHERN RENAISSANCE PAINTING 3.0
Fifteenth and sixteenth century painting in northern Europe with particular attention to Flanders and Holland; emphasis on Jan Van Eyck, Van Der Weyden, Bosch, Peter Bruegel and Matthias Gruenewald.

ARHS 325
SEVENTEENTH AND EIGHTEENTH CENTURY ART 3.0
Painting, sculpture, and architecture in western Europe from 1600 to 1800; Baroque and Rococo styles with emphasis on El Greco, Bernini, Rubens, Rembrandt, Poussin and Watteau.

ARHS 326
THE CRITICAL APPROACH 3.0
Historical criticism, criteria in art criticism, and an analysis of the critical process.

ARHS 327
HISTORY OF ORIENTAL ART 3.0
The factors that shaped oriental society; the art of China, Korea, Japan, India, Southeast Asia and the neighboring Islamic world. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 328
SURVEY OF GREEK ART 3.0
Greek art including painting, sculpture and architecture from the Bronze Age through the Hellenistic period. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 329
AMERICAN ART 3.0
Art in the United States from the colonial period through the nineteenth century; the development of an American style in the light of its relationship to and dependence upon European art.

ARHS 332
ANCIENT ART OF EUROPE 3.0
The non-classical traditions in prehistoric and early medieval Europe; the continuity of native, anticlassical artistic trends from the cave art of Paleolithic Europe to the migration arts of the early Middle Ages; the arts of the builders of Stonehenge, the Scythians, Huns, Celts, Goths and Vikings.
Prerequisite: Instructor's permission.

ARHS 450
MODERN ARCHITECTURE 3.0
Major contributions to the development of modern architecture in the nineteenth and twentieth centuries; the development of styles, structural innovations and theories of design. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARHS 451
CONTEMPORARY ART 3.0
The work of major artists of the twentieth century with particular reference to the dominant ideas of the period; readings, museum trips, discussion of contemporary writing and criticism.

ARHS 452
RENAISSANCE ART IN ITALY: THE SIXTEENTH CENTURY 3.0
The great masters of the Cinquecento: Leonardo, Michelangelo, Raphael, Giorgione and Titian; the emergence of Mannerist art and architecture in Rome, Venice, Florence and Bologna.

ARHS 454
FIELD TRIPS IN ART HISTORY 3.0
An intensive three week tour of major centers of art in conjunction with specific courses in art history, e.g., field trips in the United States or abroad.

ARHS 455
SELECTED PROBLEMS IN ART HISTORY 3.0-8.0
A seminar in topics like the works of an individual artist or a particular theme in art history (e.g. the human figure) or a particular technique (e.g. sculpture); lectures, reports, museum and studio visits, discussion. May be repeated for credit.

ARHS 457
PRE-COLUMBIAN, OCEANIC AND AFRICAN ART 3.0
The major styles of Oceania, Africa, South and Central America before Columbus.

ARHS 458
TRADITIONAL ARTS OF SUB-SAHARAN AFRICA 3.0
The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings; relation to ceremony and to daily life; symbolism and relations to the arts of other cultures. Meets the Multicultural Awareness Requirement.

ARHS 459
ART OF THE NINETEENTH CENTURY 3.0
The major movements of the nineteenth century: Classicism, Romanticism and Realism; the salon at midcentury; Impressionism; Post-Impressionism.

ARHS 462
SENIOR SEMINAR 3.0
Seminar in selected artistic problems of historic, social and philosophical nature.
Prerequisite: Instructor's permission.

ARHS 469
ART OF THE TWENTIETH CENTURY 3.0
From Picasso to today; scientific and social forces transforming the artist's vision, including the theories of Freud and Bergson.

ARHS 483
INDEPENDENT STUDY IN ART HISTORY 2.0-8.0
May be repeated for credit.
Prerequisite: Instructor's permission.

ARHS 485
ANCIENT ART IN ITALY: ETRUSCAN AND ROMAN ART 3.0
The arts of the Etruscans and Romans in their historical, cultural and religious settings.

ARMT 202
CERAMICS: POTTERY AND SCULPTURE I 3.0
Forming methods, clay composition, glazing and firing, the history of ceramics. Meets the General Education Requirement - Electives, Creative Expression.

ARMT 203
CERAMICS: POTTERY AND SCULPTURE II 3.0
Continuation of ARMT 202. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 202.

ARMT 204
FIBERS AND FABRICS I 3.0
Techniques employed by fiber artists and the textile industry; on-loom and off-loom weaving, spinning and vegetable dyeing, and fabric and fiber techniques in contemporary work. Meets the General Education Requirement - Electives, Creative Expression.

ARMT 205
FIBERS AND FABRICS II 3.0
One or more areas of endeavor selected for exploration. Emphasizes research into the various techniques and mastery of the methods. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 204.

ARMT 207
SURFACE DESIGN I 3.0
Selected printing, dyeing and fabric manipulation techniques. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 204.

ARMT 210
TEXTILE DESIGN I 3.0
Pattern rendering and putting designs into repeat for the textile industry. Meets the General Education Requirement - Electives, Creative Expression.

ARMT 211
TEXTILE DESIGN II 3.0
Advanced course in designing prints for the textile industry. Primary emphasis is the further development of a personal aesthetic appropriate to industry needs as well as that of the student-designer.
Prerequisite: ARMT 210.

ARMT 218
METALWORK AND JEWELRY I 3.0
Introduction to metal working and jewelry techniques traditionally used in the shaping of useful articles.

ARMT 219
METALWORK AND JEWELRY II 3.0
Advanced design concepts and metalworking techniques.
Prerequisite: ARMT 218.

ARMT 225
SURFACE DESIGN II 3.0
Continuation of ARMT 207. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 207.

ARMT 230
HISTORY OF TEXTILES: FOCUS ON THE AMERICAS 3.0
A study of some of the great textile traditions of the world with an emphasis on the Americas. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARMT 231
GLOBAL TEXTILES 3.0
Study of diverse textile traditions around the world. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARMT 301
CERAMICS: POTTERY AND SCULPTURE III 3.0
Continuation of ARMT 203.
Prerequisite: ARMT 203.

ARMT 302
CERAMICS: POTTERY AND SCULPTURE IV 3.0
Continuation of ARMT 301.
Prerequisite: ARMT 301.

ARMT 304
FIBERS AND FABRICS III 3.0
Further exploration of a technique or techniques selected by the student. A research paper on the historical implications of a technique and a final project are required.
Prerequisite: ARMT 205.

ARMT 305
FIBERS AND FABRICS IV 3.0
Exploration of area or areas of textile techniques selected by the student. An exhibit of work done during the semester is to be planned and hung by the student.
Prerequisite: ARMT 304.

ARMT 320
SURFACE DESIGN III 3.0
Continuation of ARMT 225.
Prerequisite: ARMT 225.

ARMT 325
SURFACE DESIGN IV 3.0
Continuation of ARMT 320.
Prerequisite: ARMT 320.

ARMT 335
METALWORK AND JEWELRY III 3.0
Traditional techniques, advanced design concepts and techniques.
Prerequisite: ARMT 219.

ARMT 350
CERAMICS: POTTERY AND SCULPTURE V 3.0
Continuation of ARMT 302.
Prerequisite: ARMT 302.

ARMT 412
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE I 3.0
Topics for investigation selected with the approval of the instructor.

ARMT 413
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 412.

ARMT 414
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 413.

ARMT 415
INDEPENDENT STUDY IN CERAMICS: POTTERY AND SCULPTURE IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 414.

ARMT 416
INDEPENDENT STUDY IN TEXTILES I 3.0
Topics for investigation selected with the approval of the instructor.

ARMT 417
INDEPENDENT STUDY IN TEXTILES II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 416.

ARMT 418
INDEPENDENT STUDY IN TEXTILES III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 417.

ARMT 419
INDEPENDENT STUDY IN TEXTILES IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 418.

ARMT 420
SURFACE DESIGN V 3.0
Continuation of ARMT 325.
Prerequisite: ARMT 325.

ARMT 425
SURFACE DESIGN VI 3.0
Advanced studies in printing, dyeing and manipulation of fabric techniques.
Prerequisite: ARMT 420.

ARMT 436
METALWORK AND JEWELRY IV 3.0
Continuation of ARMT 335.
Prerequisite: ARMT 335.

ARMT 437
INDEPENDENT STUDY IN METALWORK AND JEWELRY I 3.0
Topics for investigation selected with the approval of the instructor.

ARMT 438
INDEPENDENT STUDY IN METALWORK AND JEWELRY II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 437.

ARMT 439
INDEPENDENT STUDY IN METALWORK AND JEWELRY III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 438.

ARMT 440
INDEPENDENT STUDY IN METALWORK AND JEWELRY IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARMT 439.

ARMT 441
FIBERS AND FABRICS V 3.0
Continuation of ARMT 305.
Prerequisite: ARMT 305.

ARMT 442
FIBERS AND FABRICS VI 3.0
Continuation of comprehensive studies in progress through Fibers and Fabrics I-V.
Prerequisite: ARMT 441.

ARMT 480
CERAMICS: POTTERY AND SCULPTURE VI 3.0
Continuation of ARMT 350.
Prerequisite: ARMT 350.

ARPH 213
PHOTOGRAPHY I: A CONTEMPORARY ART FORM 3.0
The essentials of the photographic process including developing, enlarging, and exhibiting. Trips, films, discussions, lectures, criticism and demonstration. Meets the General Education Requirement - Electives, Creative Expression.

ARPH 214
INTERMEDIATE PHOTOGRAPHY: A CONTEMPORARY ART FORM 3.0
Continuation of ARPH 213. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARPH 213.

ARPH 310
ADVANCED PHOTOGRAPHY: A CONTEMPORARY ART FORM 4.0
Workshop, discussion, lecture, demonstrations, criticism; photography as an intensive learning experience; light sensitive materials, controls, photographic approach, selection, system and view camera.
Prerequisite: ARPH 214.

ARPH 311
SPECIAL PROCESS IN PHOTOGRAPHY 4.0
Non-traditional light sensitive materials for use in the photographic image-making process. Extension of traditional boundaries of photography through new tools permitting greater image manipulation: gum bichromate, cyanotype, platinum, photo etching, and others.
Prerequisite: ARPH 214.

ARPH 410
THE COLOR PHOTOGRAPHIC PRINT: A CONTEMPORARY ESTHETIC APPROACH 4.0
Photographic and printing techniques for color; history of color photographic print: museum and gallery visits.
Prerequisite: ARPH 310 or instructor's permission.

ARPH 425
INDEPENDENT STUDY IN PHOTOGRAPHY: CONTEMPORARY ART FORM I 3.0
Topics for investigation selected with the approval of the instructor.

ARPH 426
INDEPENDENT STUDY IN PHOTOGRAPHY: CONTEMPORARY ART FORM II 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARPH 425.

ARPH 427
INDEPENDENT STUDY IN PHOTOGRAPHY: CONTEMPORARY ART FORM III 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARPH 426.

ARPH 428
INDEPENDENT STUDY IN PHOTOGRAPHY: CONTEMPORARY ART FORM IV 3.0
Topics for investigation selected with the approval of the instructor.
Prerequisite: ARPH 427.

ARPH 450
COMMERCIAL PHOTOGRAPHY 4.0
Workshop and problem solving of commercial applications in photography; view camera to 35mm, color and black and white materials, studio lighting, photo illustration, photo essay, marketing. Field trips, visiting professionals.
Prerequisite: ARPH 310, majors only.

ARPH 484
A HISTORY OF PHOTOGRAPHY 3.0
The roots of photography, its practitioners and the social and historical circumstances surrounding its creation.

ARPR 120
INTRODUCTION TO PRINTMAKING 3.0
Woodcut, screen printing and monoprints; etching, drypoint and lithography. Exploration of new and advanced techniques. Meets the General Education Requirement - Electives, Creative Expression.

ARPR 200
INTRODUCTION TO ETCHING AND RELIEF PRINTING 3.0
Drypoint, engraving, etching and major techniques like line and open bite, soft ground, stop out procedure, lift ground, mezzotint and aquatint. Meets the General Education Requirement - Electives, Creative Expression.

ARPR 201
INTRODUCTION TO SCREEN PRINTING 3.0
Screen printing including miskit, tusche, glue, lacquer and stencil and photographic techniques.

ARPR 202
INTRODUCTION TO LITHOGRAPHY 3.0
Chemicals, tools, materials and techniques of the process. Meets the General Education Requirement - Electives, Creative Expression.

ARPR 215
INTRODUCTION TO CARTOONING 3.0
A studio exploration of the single-panel cartoon, humorous illustration, and the editorial cartoon through discussion, examination and experimentation. Cartoon formats, concepts, styles, techniques and history will be discussed. The student will experience creating cartoons from the isolation of an idea to the point of completion for publication. Students will receive on-going one-on-one critiques. Each major project assignment will culminate in a group critique, which will also serve as the "publication deadline" for each project.

ARPR 230
HISTORY Of THE PRINT 3.0
The principal types of prints from their beginnings to today. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARPR 334
MEDIA COMMUNICATION I: PUBLICATION DESIGN 3.0
Advanced design problems for publications ranging from posters to brochures, pamphlets and booklets to magazines and other editorial formats emphasizing two-dimensional multiple page or multiple panel layout. Character count and projection of space requirements, economics of paper stock and size selection, exploiting the potential of one, two and three color jobs through screens and overprinting.
Prerequisites: ARGN 212, 313, 375, 415, 460, or instructor's permission.

ARPR 340
MEDIA COMMUNICATION II: PACKAGE DESIGN 3.0
A survey of the state of the art in packaging. Course projects will be based on the consumer product industry. Graphic problems for three-dimensional objects and display. Package design comprehensive techniques for art director and client presentation. Grasping product essence and interpreting client needs and the demands of the marketplace.
Prerequisite: ARPR 334.

ARPR 344
TYPOGRAPHY I 3.0
Advanced problems of typographic design including headline letter spacing, complex problems of body copy design and the fine points of leading, column width, copy color, mixing of faces, and use of negative space in typographic composition so that an idea is communicated without actually being read. Study of the great designers of typography in our time and the subtleties of personal style. Current trends in typography.
Prerequisites: ARGN 212, 313, 375, 415, 460 or instructor's permission.

ARPR 348
TYPOGRAPHY II: CORPORATE IDENTIFICATION SYSTEMS AND LOGO DESIGN 3.0
Analysis of identity systems from cottage industries to corporate giants. Development, presentation, consistency and projected public image. Historical roots of identity symbols and systems from ancient to contemporary in religious, political and social usage. Design problems in logo and system design.
Prerequisites: ARPR 344, ARGN 212, 313, 375, 415.

ARPR 350
ILLUSTRATION I: SURVEY OF CONCEPTS AND METHODS 3.0
A study of the major historical and contemporary themes of illustration and its influences. Through slide presentation the work of leading illustrators will be shown and discussed and the relationship between illustration and fine art will be explored. Illustration assignments will provide concrete experience of the related thematic issues and introduce formal approaches and relevant techniques.
Prerequisite: ARGN 212.

ARPR 352
ILLUSTRATION II 3.0
Approaches to illustration and applications of illustration techniques within selected professional fields, such as book illustration and children's book illustration; media illustration; record, greeting card and poster illustration; and humorous and satirical illustration. One of these professional fields will be explored each semester, in rotation.
Prerequisite: ARPR 350.

ARPR 354
ILLUSTRATION III 3.0
Continuation of ARPR 352.
Prerequisite: ARPR 352.

ARPR 356
ILLUSTRATION IV 3.0
Continuation of ARPR 354.
Prerequisite: ARPR 354.

ARPR 363
ADVANCED PRINTMAKING I 3.0
Consideration of printmaking media; particular attention to the growth and development of art-making concepts as they relate to the printmaking processes.

ARPR 364
ADVANCED PRINTMAKING II 3.0
Continuation of ARPR 363.
Prerequisite: ARPR 363.

ARPR 400
ADVANCED PRINTMAKING III 3.0
Continuation of ARPR 364.
Prerequisite: ARPR 364.

ARPR 401
ADVANCED PRINTMAKING IV 3.0
Continuation of ARPR 400.
Prerequisite: ARPR 400.

ARPR 431
INDEPENDENT STUDY IN PRINTMAKING I 3.0
Topics for investigation selected with approval of instructor.

ARPR 432
INDEPENDENT STUDY IN PRINTMAKING II 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPR 431.

ARPR 433
INDEPENDENT STUDY IN PRINTMAKING III 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPR 432.

ARPR 434
INDEPENDENT STUDY IN PRINTMAKING IV 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPR 433.

ARPR 470
INDEPENDENT STUDY: MULTI-IMAGE MEDIA 4.0
Use of media for presentation, exhibition or publication. Topics selected with the approval of the instructor.

ARPT 200
PAINTING I 3.0
Exploration of painting media and modes of expression. Reading, gallery and museum visits. Meets the General Education Requirement - Electives, Creative Expression.

ARPT 201
PAINTING II 3.0
Continuation of ARPT 200. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARPT 200.

ARPT 210
VISUAL ARTS WORKSHOP 1.0-12.0
Selected studio topics which represent current concerns within the contemporary world of the visual arts. May be repeated for credit.

ARPT 211
SCULPTURE I 3.0
Sculptural concepts using materials like plaster, metal, plastics, stone and wood. Gallery and museum visits. Meets the General Education Requirement - Electives, Creative Expression.

ARPT 212
SCULPTURE II 3.0
Continuation of ARPT 211. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARPT 211.

ARPT 215
ART FORUM 3.0
A series of lectures/presentations by artists, critics, museum directors, art historians; and visits to museums and galleries. Introduces students to the creative process, philosophies of art, and the role of art in life. May repeat. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

ARPT 249
SCULPTURE: CLAY I 3.0
The use of clay to create sculptural forms; emphasis on developing skills and strengthening understanding of sculpture as an art form. Finished works may be composed of fired clay or unfired clay or clay in combination with other materials. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARMT 202.

ARPT 250
FIGURATIVE PAINTING 3.0
Rendering the human figure and expressing creative insights into figurative painting. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisites: ARPT 200, instructor's permission.

ARPT 259
SCULPTURE: CLAY II 3.0
Continuation of ARPT 249. Meets the General Education Requirement - Electives, Creative Expression.
Prerequisite: ARPT 249.

ARPT 308
SCULPTURE III 3.0
Continuation of ARPT 212.
Prerequisite: ARPT 212.

ARPT 309
SCULPTURE IV 3.0
Continuation of ARPT 308.
Prerequisite: ARPT 308.

ARPT 316
PAINTING III 3.0
Continuation of ARPT 201.
Prerequisite: ARPT 201.

ARPT 317
PAINTING IV 3.0
Continuation of ARPT 316.
Prerequisite: ARPT 316.

ARPT 349
SCULPTURE CLAY III 3.0
Continuation of ARPT 259.
Prerequisite: ARPT 259.

ARPT 408
INDEPENDENT STUDY: PAINTING I 3.0
Topics for investigation selected with approval of instructor.

ARPT 409
INDEPENDENT STUDY: PAINTING II 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPT 408.

ARPT 410
INDEPENDENT STUDY: PAINTING III 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPT 409.

ARPT 411
INDEPENDENT STUDY: PAINTING IV 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPT 410.

ARPT 415
PAINTING V 3.0
Continuation of ARPT 317.
Prerequisite: ARPT 317.

ARPT 416
PAINTING VI 3.0
Continuation of ARPT 415.
Prerequisite: ARPT 415.

ARPT 421
INDEPENDENT STUDY: SCULPTURE I 3.0
Topics for investigation selected with approval of instructor.

ARPT 422
INDEPENDENT STUDY: SCULPTURE II 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPT 421.

ARPT 423
INDEPENDENT STUDY: SCULPTURE III 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPT 422.

ARPT 424
INDEPENDENT STUDY: SCULPTURE IV 3.0
Topics for investigation selected with approval of instructor.
Prerequisite: ARPT 423.

ARPT 489
SCULPTURE: CLAY IV 3.0
Continuation of ARPT 349.
Prerequisite: ARPT 349.

ARTH 250
INTRODUCTION TO ART THERAPY 3.0
An historical and theoretical overview including the literature and current trends in the field. Students will use a variety of art materials to express personal symbolism, fantasy, and dreams. Open to non-majors. Meets the General Education Requirement - Electives, Personal/Professional Issues.

ARTH 450
STUDIO TECHNIQUES IN ART THERAPY 3.0
Materials and techniques of art therapy are directly experienced through practice. Open to all.
Prerequisite: ARTH 250.

FRENCH

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES
Chairperson: Madeleine Sergent

The department of French provides courses that develop linguistic skills, literary appreciation, and an understanding of the French people and their culture.

French majors may choose the translation-interpretation concentration to enhance their linguistic skills or to enter careers related to international organizations. They may also take related business courses.

Students may specialize in teacher education and prepare for careers as secondary school teachers. Students may also select a minor or a second teaching field in French.

Study Abroad

It is highly recommended that majors spend a year, a semester, or a summer studying in a French speaking country. This study should preferably be planned for the junior year. The French Department has affiliated itself with the Universities of Massachusetts, and of Caen, France, for Study Abroad programs in Caen, Paris, Angers and Dijon for full-year, semester or summer study. Other options may also be possible.

After successful completion of the program, credits will be granted by evaluation. Students may earn up to 30 semester hours for a full year of study.

French Major

Required Courses (Liberal Arts)

		Semester Hours
FREN 150,151	French Stylistics and Composition I, II	3 each
FREN 155	French Phonetics	2
FREN 250	Advanced Composition	3
FREN 220	Explication de Texte	3
FREN 201	17th Century French Literature (Prerequisite: FREN 220)	3
FREN 210	18th Century French Literature (Prerequisite: FREN 220)	3
FREN 301	19th Century French Literature (Prerequisite: FREN 220)	3
FREN 310	20th Century French Literature (Prerequisite: FREN 220)	3
FREN 360	French Perspectives (Prerequisite: FREN 220)	3

Electives (Major)

Select at least 8 semester hours from the appropriate list to be obtained from the department 8
Minimum Semester Hours **37**

Teacher Education

FREN 150, 151	French Stylistics and Composition I, II	3 each
FREN 155	French Phonetics	2
FREN 250	Advanced Composition	3
FREN 220	Explication de Texte	3
FREN 310	20th Century French Literature (Prerequisite: FREN 220)	3
FREN 360	French Perspectives	3
FREN 410	Advanced French Grammer	3
Select Two		
FREN 201	17th Century French Literature (Prerequisite: FREN 220)	3
FREN 210	18th Century French Literature (Prerequisite: FREN 220)	3
FREN 301	19th Century French Literature (Prerequisite: FREN 220)	3

Electives (Major)

Select at least 8 semester hours from the appropriate list to be obtained from the department 8
LNGN 210 Introduction to General Linguistics 3
(Recommended for all French majors.)
Minimum Semester Hours **37**

Concentration Program Within the Major
Translation

Required Courses

		Semester Hours
FREN 150, 151	French Stylistics and Composition I, II	3 each
FREN 155	French Phonetics	2
FREN 160	French Civilization: 19th and 20th Centuries	3
FREN 220	Explication de Texte	3
FREN 250	Advanced Composition	3
FREN 310	20th Century French Literature	3
FREN 350	Translation I	3
FREN 351	Translation II	3
FREN 360	French Perspectives	3
FREN 365	Introduction to Consecutive and Simultaneous Interpreting	3
OR		
FREN 452	Translation III	3
FREN 410	Advanced French Grammer	3

Electives (Major)

From the appropriate list, select 6 semester hours of which 3 s.h. must be in literature 6
Total Semester Hours **41**

French Minor

Required Courses (Liberal Arts Emphasis)

FREN 150, 151	French Stylistics and Composition I, II	3 each
FREN 155	French Phonetics	2
FREN 220	Explication de Texte	3

Electives (Major)

French Literature and Civilization 7
Minimum Semester Hours **18**

Required Courses (Business Emphasis)

		Semester Hours
FREN 121, 132	Intermediate French I, II	3 each
FREN 150, 151	French Stylistics and Composition I, II	3 each
FREN 135	Commercial French I	3
FREN 145	Introduction to French Culture	3
FREN 165	Spoken Language Practice	3

Total Semester Hours **21**

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. In addition, French majors must have a "B" average in French, take the Teacher Education courses under the French Major Requirements, and FREN 419 The Teaching of French in Secondary Schools.

Second Teaching Field in French

An approved program of at least 30 semester hours and satisfactory completion of The National Teachers Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

Required Courses

FREN 150, 151 French Stylistics and Composition I, II ..... 3 each
FREN 155 French Phonetics 2
FREN 220 Explication de Texte 3
FREN 250 Advanced Composition 3
FREN 165 Spoken Language Practice 3
FREN 410 Advanced French Grammar 3

Electives

From the appropriate list, select 10 semester hours of which 3 s.h. must be in literature and 3 s.h. in civilization 10
Total 30

NOTE: If a student has not taken a teaching methods course in a foreign language, it is necessary to take FREN 419 The Teaching of French in Secondary Schools.

Courses of Instruction

FREN 101
BEGINNING FRENCH I 3.0
For students starting French in college, or students who have been placed at this level after taking the placement test. The fundamentals of speaking, reading and writing through classroom drill, video cassettes and laboratory work. Meets the General Education Requirement - Foreign Language.

FREN 112
BEGINNING FRENCH II 3.0
For students having completed Beginning French I or who have been placed at this level after taking the placement test. Continuation of basic skills through classroom drill, video-cassettes and laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite: FREN 101 or equivalent.

FREN 121
INTERMEDIATE FRENCH I 3.0
Developing of listening, reading and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available. Meets the General Education Requirement - Foreign Language.
Prerequisite: FREN 112 or equivalent.

FREN 132
INTERMEDIATE FRENCH II 3.0
Developing of listening, reading, and speaking ability through study of representative works and characteristic aspects of French life and culture. Laboratory work available. Meets the General Education Requirement - Foreign Language.
Prerequisite: FREN 121 or equivalent.

FREN 135
COMMERCIAL FRENCH I 3.0
A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises.
Prerequisite: FREN 151 or equivalent.

FREN 136
COMMERCIAL FRENCH II 3.0
A two-semester sequential course, conducted entirely in French, emphasizing the development of the specialized language skills of commercial French, through the study of the French economy-commercial professions and enterprises.
Prerequisite: FREN 135 or equivalent.

FREN 145
INTRODUCTION TO FRENCH CULTURE 3.0
Various aspects of contemporary France such as politics, education, social and artistic movements. Meets the General Education Requirement - Foreign Language.
Prerequisite: FREN 121.

FREN 150
FRENCH STYLISTICS AND COMPOSITION I 3.0
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.
Prerequisite: FREN 132 or equivalent.

FREN 151
FRENCH STYLISTICS AND COMPOSITION II 3.0
Skills of the French language. Intensive vocabulary practice, laboratory drills, grammar review and weekly compositions, integrated into an intensive language program.
Prerequisite: FREN 150.

FREN 155
FRENCH PHONETICS 2.0
Weekly transcriptions, problems of articulation, rhythm, accentuation and intonation; intensive language laboratory work.

FREN 160
FRENCH CIVILIZATION 19TH AND 20TH CENTURIES 3.0
Various aspects of the material, intellectual, artistic, and spiritual life of France.

FREN 165
SPOKEN LANGUAGE PRACTICE 3.0
Intensive conversation with organized discussions on subjects of special interest.

FREN 201
SEVENTEENTH CENTURY FRENCH LITERATURE 3.0
The most representative authors of the century.

FREN 210
EIGHTEENTH CENTURY FRENCH LITERATURE 3.0
Main writings of the age of enlightenment.

FREN 220
EXPLICATION DE TEXTE 3.0
Improvement of reading skills and literary perception through the technique of the explication de texte, using examples from a wide variety of periods and genres.
Prerequisite: FREN 151.

FREN 230
FRENCH FILM 3.0
Development of film art with special emphasis on the contemporary period.

FREN 250
ADVANCED COMPOSITION 3.0
A review of advanced grammar through intensive written and oral practice.

FREN 260
ORIGINS OF FRENCH CIVILIZATION 3.0
French history and cultural development from the Middle Ages to the Revolution.

FREN 261
MUSIC AND ART IN FRENCH CIVILIZATION 3.0
Composers from the Midle Ages (Perotin) to Modern Times (Boulez); their social and cultural backgrounds.

FREN 265
ADVANCED SPOKEN LANGUAGE PRACTICE 3.0
Intensive conversation on an advanced level on selected and varied topics.

FREN 301
NINETEENTH CENTURY FRENCH LITERATURE 3.0
Principal literary currents from Romanticism to Symbolism.

FREN 310
TWENTIETH CENTURY FRENCH LITERATURE 3.0
Representative works of contemporary theater and the novel.

FREN 311
CONTEMPORARY FRENCH DRAMA 2.0
Theatre from the beginning of the century to the present.

FREN 340
SURVEY OF FRENCH POETRY 2.0
Development of principal poetic movements with emphasis on the 19th and 20th centuries.

FREN 345
DEVELOPMENT OF FRENCH NOVEL TO 1900 3.0
Evolution of fiction from the feminist writings of Mme De La Fayette and Diderot's. Literature of social involvement to the present.

FREN 349
FRANCOPHONE LITERATURE 3.0
Literature of French Expression outside continental France.

FREN 350
TRANSLATION I 3.0
Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.

FREN 351
TRANSLATION II 3.0
Techniques of translation English-French, French-English. Vocabulary, comparative sentence structure, analysis and expression of ideas and images.
Prerequisite: FREN 350.

FREN 360
FRENCH PERSPECTIVES 3.0
A French viewpoint on contemporary problems emphasizing interrelationships of political, social and economic fields.

FREN 365
INTRODUCTION TO CONSECUTIVE AND SIMULTANEOUS INTERPRETING 3.0
The field of cross-cultural communications (with emphasis on the French-speaking world) and practice in the techniques of simultaneous and consecutive interpreting, French-English, English-French.
Prerequisites: FREN 350, 351.

FREN 367
SEMINARS 3.0-12.0
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

FREN 368
SEMINARS 3.0-12.0
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

FREN 369
SEMINARS 3.0-12.0
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

FREN 375
FRENCH STUDY ABROAD 3.0-6.0
Study at a university in a French-speaking country to gain first-hand knowledge of the historical, social, economic, and cultural life of the country. Credit by evaluation.
Prerequisite: Permission of department chairperson.

FREN 380
COOPERATIVE EDUCATION FOR THE FRENCH MAJOR 4.0-8.0
Supervised work experience and academic project in professional field related to major.

FREN 410
ADVANCED FRENCH GRAMMAR 3.0
A review of the most important structural features of French, with special emphasis on areas of interference with English structure.

FREN 419
THE TEACHING OF FRENCH IN SECONDARY SCHOOLS 3.0
Lesson planning; evaluation of techniques; demonstration of teaching procedures, teaching aids, exploration of direct method and audio-lingual approaches.

FREN 452
TRANSLATION III 3.0
Translation of articles in specific fields of interest to improve translation skills.
Prerequisites: FREN 350, 351.

FREN 470
SEMINARS 3.0-12.0
Selected topics to be studied in depth with emphasis on methods of inquiry. Topic announced each semester.

FREN 478
INDEPENDENT STUDY 1.0-3.0
Directed independent study and research in French language and literature.

FRIN 286
FRENCH FILM 3.0
Development of film art with special emphasis on contemporary period. Taught in English.

FRIN 288
MUSIC AND ART IN FRENCH CIVILIZATION 3.0
Composers from the Middle Ages (Perotin) to Modern Times (Boulez) in relation to their social and cultural backgrounds. Taught in English.

GERMAN AND RUSSIAN

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: John V. Moore

A command of the German or Russian language with an understanding of the respective literature and culture is the object of the courses offered by the department. The German program offers a liberal arts major, a teacher education major plus a second teaching field and a liberal arts minor. The Russian program offers a liberal arts minor and a second teaching field, as well as required courses for the Russian Area Studies minor.

Study Abroad

It is highly recommended that majors spend a year, a semester or a summer studying in a German-speaking country. This study should preferably be planned for the junior year. Montclair State College has a student exchange program with the University at Graz, Austria, which includes a generous scholarship.

After successful completion of the program, credits will be granted by evaluation.

German Major

Required Courses

	Semester Hours
GERM 141 Review of Fundamental Grammar	3
GERM 151, 152 Advanced German I, II	3 each
GERM 251, 252 Introduction to German Literature I, II	3 each
GERM 351, 352 German Civilization I, II	3 each

Electives (Major)

Select 12 semester hours from the appropriate list to be obtained from the department 12

German Minor

Required Courses

	Semester Hours
GERM 141 Review of Fundamental Grammar	3
GERM 151, 152 Advanced German I, II	3 each

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Russian Minor*

Required Courses

RUSS 101 and 112 Beginning Russian I, II	6
RUSS 121 and 132 Intermediate Russian I, II	6
RUSS 141 and 152 Advanced Russian I, II	6

Russian Area Studies Minor

Required Courses

RUSS 101, 112 Beginning Russian I, II	6
Soviet History or Political Science (see department entries)	6

Electives (Departmental)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Electives (Interdepartmental)

The Russian Area Studies minor is interdisciplinary, and appropriate elective courses may be selected from the Departments of History, Political Science, Geography, and Economics, as well as from offerings in Russian language, literature and civilization, with permission of the program coordinator.

*Other courses may be selected under certain circumstances with departmental approval.

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. The following are the departmental course requirements for the program, in addition to the courses listed above for the German major.

	Semester Hours
GERM 410 German Grammar: Applied Linguistics	3
GERM 419 Teaching German in Secondary School	3

Electives (Not required but recommended)

GERM 142 Practice in Written German	3
GERM 209 Phonetics and Phonology	3

Second Teaching Field In German

An approved program of at least 30 semester hours and satisfactory completion of The National Teacher Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

GERM 141 Review of Fundamental Grammar	3
GERM 151, 152 Advanced German I, II	3 each
GERM 251, 252 Introduction to German Literature I, II	3 each
5 additional courses in German (GERM) beyond intermediate level	15

*Second Teaching Field in Russian**

An approved program of at least 30 semester hours and satisfactory completion of The National Teacher Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Specific requirements may be obtained from the department.

RUSS 101 and 112 Beginning Russian I, II	6
RUSS 121 and 132 Intermediate Russian I, II	6
RUSS 141 and 152 Advanced Russian I, II	6
GNHU 293 Russian Culture and Civilization	3
GNHU 294 Russian Prose and Drama	3
Courses from related fields (by advisement)	6

*Under certain circumstances and with permission of the department chairperson, other selected courses may be counted.

Courses of Instruction

GERM 101
BEGINNING GERMAN I 3.0
For students with no previous instruction in German. Emphasis on speaking, with practice in reading and writing German. Laboratory work. Meets the General Education Requirement - Foreign Language.

GERM 112
BEGINNING GERMAN II 3.0
Emphasis on speaking, with practice in reading and writing German. Laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 101 or equivalent.

GERM 121
INTERMEDIATE GERMAN I 3.0
Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 112 or equivalent.

GERM 132
INTERMEDIATE GERMAN II 3.0
Open to students who have acquired an elementary knowledge of German elsewhere. Further development of the ability to understand, speak, read and write German, with emphasis on speaking. Laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 121 or equivalent.

GERM 141
REVIEW OF FUNDAMENTAL GRAMMAR 3.0
Oral and written practice for better control of language structure. Required for freshman majors, who are given admission preference.
Prerequisites: GERM 132 or equivalent.

GERM 142
PRACTICE IN WRITTEN GERMAN 3.0
Increasingly difficult assignments to develop command of idiomatic German. Strongly recommended for majors desiring teacher certification.
Prerequisite: GERM 141

GERM 151
ADVANCED GERMAN I 3.0
Continuation of Intermediate German on a more advanced level. Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshman majors who are given admission preference. Meets the General Education Requirement - Foreign Language.
Prerequisites: GERM 132 or equivalent.

GERM 152
ADVANCED GERMAN II 3.0
Students must follow class instruction in German, speak and write simple idiomatic German and read and discuss increasingly difficult assignments in literary German, particularly in the second semester. Required for freshmen majors, who are given admission preference. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 151.

GERM 209
PHONETICS AND PHONOLOGY 3.0
Application of phonetic science to the acquiring and teaching of good pronunciation; the international phonetic alphabet; problems of articulation; rhythm, accentuation and intonation. Strongly recommended for majors desiring teacher certification.

GERM 251, 252
INTRODUCTION TO GERMAN LITERATURE I, II 3.0 EACH
Standard works of German literature from the classical period to the present; methods of literary interpretation; developmental approach to the principal epochs of German literature. Required of sophomore majors, who are given preference. Meets the General Education Requirement - Foreign Language.
Prerequisite for GERM 252: GERM 251.

GERM 309
PRACTICE IN SPOKEN GERMAN 3.0
Intensive conversation practice to improve fluency and increase active vocabulary.

GERM 310
ADVANCED COMPOSITION 3.0
Intensive written exercises to improve command of the German language; some oral work.

GERM 315
TRANSLATION I 3.0
Intensive practice in the skills of translating professional texts from German into English and from English into German.
Prerequisite: Instructor's permission.

GERM 316
TRANSLATION II 3.0
Continuation of GERM 315 with more intensive exposure to the skills of translation. Recommended for qualified students interested in a possible future career as bilingual secretary, translator of commercial texts, etc.
Prerequisite: GERM 315, instructor's permission.

GERM 317
TRANSLATION III 3.0
Continuation of GERM 316 with conclusion of training in international business translation. Development of increasingly sophisticated skills required to translate professionally in a variety of fields. Emphasis on translation from German into English.
Prerequisite: GERM 316, instructor's permission.

GERM 318
TRANSLATION IV 3.0
Continuation of GERM 317 with increasingly technical and specialized texts translated into the student's native language. Two individual projects in two areas of special interest.
Prerequisite: GERM 317, instructor's permission.

GERM 320
DEVELOPMENT OF THE GERMAN LANGUAGE 3.0
Background, growth, and structure of the German language from the Indo-European and Germanic beginnings to the language as spoken today; historical explanation of modern German grammar.

GERM 341
GERMAN LITERATURE FROM THE ORIGINS TO THE REFORMATION 3.0
Works representative of the Old High German, Middle High German, and late Medieval periods read in modern German version. The most important genres and trends, ending with excerpts from Luther's works.

GERM 342
GERMAN LITERATURE FROM THE 16TH TO THE 18TH CENTURIES 3.0
Representative works illustrating the trends preceding the classical period.

GERM 351
GERMAN CIVILIZATION I 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of re-unification, the political and educational systems and cultural trends. Required of junior majors, who are given admission preference. Meets the General Education Requirement - Foreign Language.

GERM 352
GERMAN CIVILIZATION II 3.0
Students read and discuss orally and in writing material on German history, folklore and geography, as well as contemporary problems of re-unification, the political and educational systems and cultural trends. Required of junior majors, who are given admission preference. Meets the General Education Requirement - Foreign Language.
Prerequisite: GERM 351.

GERM 360
MODERN GERMAN PROSE FICTION 3.0
Reading and discussion of great German novels and novellas of the 19th and 20th centuries, the personal and stylistic characteristics of the authors; the literary periods they represent.

GERM 364
GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES 3.0
Reading and discussion of outstanding plays and dramatists from Goethe's death to the present; interpretation and theories of dramas.

GERM 375
GERMAN STUDY ABROAD 3.0-6.0
Study at a university in a German-speaking country to gain first-hand knowledge of the historical, social, economic, and cultural life of the country. Credit by evaluation.
Prerequisite: Permission of department chairperson.

GERM 380
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.

GERM 381
INDEPENDENT STUDY IN GERMAN (JUNIOR LEVEL) 3.0
Directed individual study and research in German for junior majors with the desire, ability, and responsibility necessary to pursue a special scholarly interest.

GERM 385
COOPERATIVE EDUCATION FOR GERMAN MAJORS 4.0-8.0
This course provides opportunity for the student to extend the academic learning experience beyond the campus by placing him/her in meaningful learning situations with thoroughly screened and approved employers. This supervised work experience, connected with an academic project in a professional field related to the major, will enhance the student's professional qualifications.
Prerequisites: Minimum junior status; minimum 3.00 cumulative grade point average.

GERM 410
GERMAN GRAMMAR: APPLIED LINGUISTICS 3.0
A review of the most important structural features of German; areas of interference with English structure which present the greatest difficulties to the American student of German. Required for majors desiring teacher certification.

GERM 419
TEACHING GERMAN IN SECONDARY SCHOOLS 3.0
The aims, objectives and methods used in teaching German in secondary schools; textbooks, supplementary teaching materials, language laboratory, tests, etc. Required for majors desiring teacher certification.

GERM 441
THE AGE OF GOETHE 3.0
The life and works of Goethe; his continuing importance; reading from all important genres in which Goethe wrote.

GERM 442
THE AGE OF SCHILLER 3.0
The life and works of Schiller; his continuing importance; reading from the dramas, essays and poems.

GERM 460
SENIOR SEMINAR 3.0
Study in depth of significant figures not adequately treated elsewhere in the departmental offerings (Holderlin, Kleist, etc.) or detailed study of special literary groups (German symbolist poets, etc.). Each student produces a research paper.

GERM 480, 481
INDEPENDENT STUDY IN GERMAN (SENIOR LEVEL) 3.0 each
Directed individual study and research in German for senior majors with the desire, ability and responsibility necessary to pursue a special scholarly interest.

GRIN 293
RUSSIAN CULTURE AND CIVILIZATION 3.0
The history of Russian culture from the early stages of Slavic civilization to the modern Soviet period. Special emphasis is placed on the role of the arts, especially literature, as a reflection of philosophical, political, and cultural change. No knowledge of Russian is required. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Also listed as GNHU 293.

GRIN 294
RUSSIAN PROSE AND DRAMA 3.0
Russian prose and drama from the 18th century to the present day. Representative works of Gogol, Turgenev, Dostoevski, Tolstoi and Gorki. No knowledge of Russian is required. Taught in English.

GRIN 295
GERMAN EXPRESSIONISM 3.0
Various aspects of German expressionism. Encompassing roughly the period between the two world wars; the political and social climate of the Weimar republic; literature, painting, sculpture, music and the film of that era; defining expressionism as a specific historical period as well as a perennial stylistic device. Taught in English.

RUSS 101, 112
BEGINNING RUSSIAN I, II 3.0 each
The fundamentals of grammar and pronunciation. Lab work. Meets the General Education Requirement - Foreign Language.
Prerequisite for RUSS 112: RUSS 101 or equivalent.

RUSS 121, 132
INTERMEDIATE RUSSIAN I, II 3.0 each
Continuation of Russian 101 and 112. Open to students who have acquired an elementary knowledge of Russian elsewhere. Detailed review of Russian grammar and pronunciation, more advanced conversation. Lab work. Meets the General Education Requirement - Foreign Language.
Prerequisite for RUSS 121: RUSS 101 or equivalent.
Prerequisite for RUSS 132: RUSS 121 or equivalent.

RUSS 141, 152
ADVANCED RUSSIAN I, II 3.0 each
Intensive study of Russian grammar, composition and translation, with assigned research in areas of special interest to individual students. Laboratory work. Meets the General Education Requirement - Foreign Language.
Prerequisite for RUSS 141: RUSS 132 or equivalent.
Prerequisite for RUSS 152: RUSS 141 or equivalent.

RUSS 478
INDEPENDENT STUDY IN RUSSIAN 1.0-3.0
Directed individual study and research in Russian for special students.
Prerequisite: Permission of instructor and department chairperson.

HEALTH PROFESSIONS

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Harry H. Hoitsma

The health professions are growing. Whether already certified in an allied health specialty and seeking a chance to move into management, or looking for a career as a health educator, the department offers courses to prepare students for emerging opportunities in selected aspects of the health field.

The Bachelor of Science degree in health education includes preparation for community health positions and the necessary professional courses for a teaching certificate. The Bachelor of Science in Allied Health Services is designed for continuing the education of those already certified in one of the many allied health specializations, including nursing. Here the course work develops leadership skills in management and supervision both at Montclair State and other cooperating institutions depending on the individual need.

Health Education Major

Required Courses

			Semester Hours
HLTH	207	Safety, Accidents, and Emergency Care	3
HLTH	210	Consumer Health	3
HLTH	213	Perspectives on Drugs	3
HLTH	220	Mental Health	3
HLTH	240	Foundations of Environmental Health	3
HLTH	290	Human Sexuality	3
HLTH	307	The Study of Human Diseases	3
HLTH	315	Public Health	3
HLTH	330	Foundations Of Health Education	3
HENU	182	Nutrition	3
BIOL	254	Applied Microbiology	3
HLTH	404	Foundations of Measurement and Evaluation in Health Education	3
HLTH	411	School Health and Community Services	3

Required Collateral Courses

BIOL	240	Mammalian Anatomy and Physiology I	3
BIOL	241	Mammalian Anatomy and Physiology II	3
CHEM	107	College Chemistry I	2
CHEM	109	College Chemistry Laboratory I	1
CHEM	108	College Chemistry II	2
CHEM	110	College Chemistry Laboratory II	1
HENU	182	Nutrition	3

Teacher Certification

Health Education, grades K-12

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. In addition the course HLTH 401 The Teaching of Health must be satisfactorily completed.

Professional Sequence

Community Health Services Concentration

HLTH	401	The Teaching of Health	4
HLTH	430	Health Counseling	3
HLTH	490	Health Education and the Computer	3
MEDI	400	Media for Trainers and Educators	3

Plus *one* course that includes treatment of the nature and function of management, to be selected following departmental advisement from among such courses as:

MGMT	311	Management Process and Organizational Behavior	4

Plus the following courses in sequence:

HLTH	245	Observation of Health Agencies	2
HLTH	350	Field Study in Health	6

OR

A comparable experience provided through the Cooperative Education Program:

COED	301	Cooperative Education Experience I	8

Required Collateral Courses

			Semester Hours
BIOL	240	Mammalian Anatomy and Physiology I	3
BIOL	241	Mammalian Anatomy and Physiology II	3
CHEM	107	College Chemistry I	2
CHEM	109	College Chemistry Laboratory I	1
CHEM	108	College Chemistry II	2
CHEM	110	College Chemistry Laboratory II	1
HENU	182	Nutrition	3

Allied Health Services Major

Required Courses

			Semester Hours
HLTH	315	Public Health	3
HLTH	455	Core Concepts in the Delivery of Health Care	3
HLTH	460	Systems of Health Services Delivery	3
MGMT	311	Management Process and Organizational Behavior	4
MGMT	316	Human Resource Management	3
		OR	
MGMT	431	Middle and First Line Management	3
ACCT	201	Fundamentals of Accounting I	3
		OR	
ACCT	200	Accounting for Non Business Majors	3
MATH	109	Statistics	3
COMP	108	Computers and Programming	3
		OR	
BSED	273	Introduction to Computers in Business	3

Collateral Courses

ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department 15

Electives (General)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Technical Speciality in Allied Health

Twenty-four (24) credits must be completed at or recognized by an academically accredited institution prior to transfer to Montclair State College.

Health Studies Minor

This eighteen semester-hour minor is designed especially for Liberal Arts students and other selected majors seeking to enhance their academic and/or professional preparation through selected study pertaining to the broad spectrum of health care delivery and related services. Following careful consultation with a departmental advisor, each candidate develops a sequence of coursework in three major areas: (1) Foundations of Health Study; (2) Basic Content in the Health Disciplines; and (3) Processes of Development, Implementation and/or Evaluation, particularly as these elements pertain to the respective major field of study.

The basic objectives of the Health Studies Minor are to: (1) enhance career opportunities related to a student's major academic and/or professional interests; (2) increase opportunities for continuing and advanced education in the health professions and/or in health-related disciplines; and (3) expand individual awareness of significant personal and community health issues, while providing for the refinement of one's decision-making capabilities in these contexts. Students seeking acceptance into the Health Studies minor must consult with a departmental advisor to determine the applicability of the Health Studies Minor to one's specific academic major and career goals. An eighteen-semester hour program of coursework must be established, including studies in each of the following categories:

A. Foundations of Health Study ..... 3-6 semester hours
B. Basic Content in the Health Disciplines ..... 9-12 semester hours
C. Processes of Development, Implementation and/or Evaluation ..... 3-6 semester hours

Physical Education and Health

Dual Teacher Certification Requirement

The department offers a combined certification component in the Physical Education and Health program, provided in conjunction with the department of Physical Education, Recreation and Leisure Studies. Satisfactory completion of this dual certification program leads to eligibility for a single New Jersey certificate in Physical Education and Health. The Health Education component in this program is as follows:

Required Courses

			Semester Hours
HLTH	401	Teaching of Health	4
HLTH	290	Human Sexuality	3
HLTH	411	School Health and Community Services	3
HLTH	213	Perspectives on Drugs	3
Select One			
HLTH	210	Consumer Health	3
HLTH	220	Mental Health	3
HLTH	240	Foundations of Environmental Health	3
Select Two			
HLTH	307	The Study of Human Diseases	3
HLTH	315	Public Health	3
		or any other (HLTH) health professions course with advisement.	

Physical Education requirements in this program are described in the department of Physical Education, Recreation and Leisure Studies section of this catalog.

Courses of Instruction

HLTH 101
PERSONAL HEALTH ISSUES 3.0
Examines health as a variable entity having physiological, psychological and environmental dimensions. Employs an individualized participatory approach that includes assessing one's own health status and behavior; increasing competencies in making health related decisions; eliciting health promoting behaviors; and interpreting existing or proposed social actions that ultimately affect personal, family and community health. Meets the General Education Requirement - Electives, Personal/Professional Issues.

HLTH 105
MEDICAL TERMINOLOGY 3.0
A basic health course introducing elements of medical terminology describing body parts, systems, functions and medical procedures. Emphasis will be placed on development of medical vocabulary and communication skills. The course will provide learning episodes in formulating medical abbreviations and translating complex terminology into lay terms, that ultimately will be applicable to careers in medical writing, health care delivery and management.

HLTH 207
SAFETY, ACCIDENTS AND EMERGENCY CARE 3.0
Provides for study of major safety areas including transportation, public safety, industrial and home safety. Emergency health care, first aid treatment, and preventive measures are considered in the context of individual, agency and institutional responsibilities.

HLTH 210
CONSUMER HEALTH 3.0
Interpretation of individual economic activity as it relates to health service and health products. Includes analysis of factors influencing consumer health attitudes and behavior. Meets the General Education Requirement - Contemporary Issues.

HLTH 213
PERSPECTIVES ON DRUGS 3.0
Provides for the study of licit as well as illicit drug use in contemporary society from the perspective of selected biomedical and psychosocial disciplines. Examines the effects of drugs on the individual and society in the context of changing social conditions and technological developments. Analyzes complex nature of the drug problem and rehabilitative and preventive measures and tentative solutions to this important aspect of human existence. Meets the General Education Requirement - Contemporary Issues.

HLTH 220
MENTAL HEALTH 3.0
Provides for the study of human emotional adjustment throughout the life cycle from biomedical and psychosocial perspectives. The factors that foster the development of emotional and mental well-being and the forces that contribute to the breakdown of human adjustment capabilities are identified and analyzed in light of research and clinical literature. Special attention is given to the strategies for the prevention of mental disorders and promotion of mental health. Meets the General Education Requirement -Electives, Personal/Professional Issues.

HLTH 240
FOUNDATIONS OF ENVIRONMENTAL HEALTH 3.0
Prepares student to make informed decisions concerning the avoidance or elimination of disease-causing environmental exposures by providing an understanding of the scientific principles by which these exposures are identified, measured, and judged as to their acceptability. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science.

HLTH 245
OBSERVATION OF HEALTH AGENCIES 2.0-3.0
An introductory field course designed to acquaint students with a wide range of school and community health programs and professional specializations in health. Provides a series of field visits and short-term placements under professional supervision. Open to all.
Prerequisites: HLTH 101, instructor's written permission prior to registration.

HLTH 290
HUMAN SEXUALITY 3.0
Provides for the study of human sexuality from the various biological, physiological, sociological, and psychological perspectives and examines individual and community attitudes concerning sexual behavior. Includes such contemporary issues as abortion, sterilization, homosexuality, artificial insemination, and gender selection. Acquaints students with criteria and processes for understanding themselves as sexual beings in the context of the social environment which provides their opportunities and constraints. Meets the General Education Requirement - Electives, Personal and Professional Issues.

HLTH 307
THE STUDY OF HUMAN DISEASES 3.0
Provides a comprehensive study of diseases, their etiology, pathophysiology, diagnosis, prognosis, and treatment. Includes a review of causation theories and incidence patterns and focuses on major degenerative neo-plastic metabolic, immunologic and infectious diseases. Attention is given to prevention and control measures with an emphasis on the role of selected health/medical resources in disease management.

HLTH 313
HEALTH CONSEQUENCES OF ALCOHOL USE AND ABUSE 3.0
The biological and pharmacological effects of alcohol use and abuse are examined. The health problems associated with abusive alcohol consumption are investigated and current research in this area is reviewed. Theories on the genesis of alcoholism relating to the individual, family and the community are studied.

HLTH 314
PUBLIC HEALTH ASPECTS OF ALCOHOL ABUSE 3.0
Examines the impact of alcohol abuse on public health. Society's attempts to diminish the impact are also explored. Includes study of effects of alcohol abuse on the family and workplace; prevention modalities and rehabilitation programs.

HLTH 315
PUBLIC HEALTH 3.0
A basic course focusing on major health problems currently affecting the local, state, national and international scenes and includes consideration of political, social and economic factors. Special attention is directed to the public health organizations and agencies dealing with these health problems.
Prerequisite: Course in similar field.

HLTH 330
FOUNDATIONS OF HEALTH EDUCATION 3.0
Provides a comprehensive study of the scientific, social, behavioral, educational, and legal foundations of health education. Traces the evolution and interprets the impact of related professions on school, community and allied health education.

HLTH 347
HEALTH ISSUES FORUM 1.0-3.0
In-depth study of a single health issue of current public or professional concern including analysis of recent authoritative literature. Topic to be announced each semester. Course credit determined by nature and breadth of topics selected. With permission of the department, course may be taken more than once.
Prerequisites: Junior or senior standing; specific prerequisites may be required for certain forum topics.

HLTH 350
FIELD STUDY IN HEALTH 2.0-6.0
Selected experiences in community health work through arrangements with various kinds of health agencies. Major projects developed under supervision of a faculty member and a qualified person in the health professions agency.
Prerequisites: Must obtain written approval of instructor prior to registration; course in similar field.

HLTH 401
THE TEACHING OF HEALTH 4.0
Traces historical development of health instruction examines characteristics of health learners, and compares different types of health education programs. Provides for use of the computer in health education. Requires demonstration of health education planning, teaching and evaluation skills.

HLTH 404
FOUNDATIONS OF MEASUREMENT AND EVALUATION IN HEALTH EDUCATION 3.0
Provides for the study of the concept and the process of measurement and evaluation in health education. Specific topics related to test selection, test construction, test administration, and analysis of test results are discussed within a broad theoretical framework and reinforced with practical experiences.

HLTH 406
SCHOOL NURSING 3.0
Comprehensive principles and practices of school nursing for promoting and safeguarding the health of school populations. Required for school nursing endorsement with certificate in educational services for registered nurses.

HLTH 411
SCHOOL HEALTH AND COMMUNITY SERVICES 3.0
Provides for an in-depth understanding of the school health program and community services. Includes study of school and health services, healthful school environment, and health education and community health services.

HLTH 430
HEALTH COUNSELING 3.0
Course focuses on factors influencing health and illness behavior with implication for behavioral intervention in health care. Included are the intervention strategies of prevention, crisis intervention, postvention and compliance, and the intervention techniques of assessment, interviewing, counseling skills and small group dynamics.

HLTH 440
HEALTH ASPECTS OF AGING 3.0
This course focuses upon changes in aspects of health during the middle and later years of life. Includes anatomy and physiology, nutritional requirements, sensoria and those phenomena associated with aging and sexuality. Common causes of morbidity and mortality explored as they relate to the aged. Attention given to the psychosocial and economic needs of the elderly as well as to those aspects of gerontology which deal with legislation and community organization.

HLTH 442
HEALTH PROMOTION 3.0
Provides an overview of efforts to reduce the prevalence of disease-promoting behaviors by establishing health programs in various settings. Criteria for prioritizing health promotion efforts are examined and applied to specific risk factor reduction efforts. The need to evaluate the cost-benefit of health promotion programs is emphasized. Administrative and ethical issues in health promotion are addressed.

HLTH 445
PERSPECTIVES ON DEATH 3.0
Exploration of the personal and social meanings of death. Formulation of realistic plans for living, through education about death.
Prerequisite: HLTH 220 or instructor permission.

HLTH 455
CORE CONCEPTS IN THE DELIVERY OF HEALTH CARE 3.0
Interdisciplinary analysis of patient care, supporting functions of health practitioners and human service principles underlying allied health professional-patient interactions.
Prerequisites: Six months of occupational experience in an allied health specialty. Course in similar field.

HLTH 456
CLINICAL INTERNSHIP IN ALLIED HEALTH 1.0-4.0
Provides placements in a series of clinical settings to provide pre-service and in-service health occupations educators with opportunities to gain first-hand knowledge of the practice of a variety of health occupations. The nature and sequence of the experiences will be determined by individual needs and professional objectives.
Prerequisites: Professional licensure in an allied health specialty, HLTH 441, course in similar field.

HLTH 457
PROFESSIONAL ISSUES IN ALLIED HEALTH 3.0
To provide a comprehensive overview of issues and problems in allied health practice and an understanding of the roles and responsibilities of allied health professionals. Attention will be paid to allied health careers. Topics will vary according to current trends and developments in allied health practices.

HLTH 458
CURRICULUM AND TEACHINGS IN HEALTH OCCUPATIONS EDUCATION 3.0
Application of curriculum and teaching principles in secondary and post-secondary health occupations instructional problems. First semester: classroom teaching and special instructional methods. Second semester: clinical instruction, curriculum development and coordination of health occupations programs.
Prerequisite: PSYC 200 or HLTH 401.

HLTH 460
SYSTEMS OF HEALTH SERVICES DELIVERY 3.0
The organization, administration and functions of health services in the United States and other major nations; the social and professional policies which determine their scope and nature. Principal methods currently employed in the U.S. for analysis and evaluation of health care systems. Offers opportunity to students to relate these general understandings to those segments of the health services system of particular professional interest to themselves.
Prerequisite: Course in similar field or instructor's permission.

HLTH 470
PATIENT EDUCATION 3.0
Provides for an in-depth study of comprehensive patient education. Topics include historical development, roles and responsibilities of patient education, program planning and development, and evaluation of patient education programs.
Prerequisite: Majors only or instructor's permission.

HLTH 490
ETHICS IN HEALTH CARE 3.0
Ethics is recognized as a general area of concern for health care practitioners and administrators. Issues in health care ethics will be discussed, with emphasis on their impact on delivery and administration of health care, and the personal ethical dilemmas they impose upon the health care professional. Issues included are general health care ethics, the right to health care, allocation of scarce resources, control of death, and human experimentation.

HLTH 491
HEALTH EDUCATION AND THE COMPUTER 3.0
Provides students with a basic understanding of and skills in computer functions related to school and community health education programs. Emphasizes the use and evaluation of software for the planning implementation and evaluation of health education processes. Explores the use of video technologies and the potential impact of future developments in computer technology.

HLTH 495
WRITING FOR PUBLICATION IN HEALTH 3.0
General aim is to analyze and develop skills in the process of writing for publication in the health field. Students analyze health writing, meet published writers, interview editors, utilize health research facilities and submit a manuscript for publication. Permission of instructor required.

HISTORY

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES
Chairperson: Joel Schwartz

The study of history, an important part of a broad liberal education, helps to prepare students for careers in teaching, law, government service, politics, journalism and creative writing, library science, business research, and positions with local, state or national archives, museums and historical societies or restoration agencies. The department offers specialized study mainly in American, European and Asian history. History majors may adapt their programs to meet certification requirements for teaching social studies in New Jersey secondary schools. A minor in history is also offered.

History Major

Required Courses

	Semester Hours
HIST 100 The Study of History	3
HIST 117 History of the United States to 1876	3
HIST 118 History of the United States since 1876	3
European History (Select one sequence)	6
HIST 103 Foundations of Western Civilization	
HIST 105 Emergence of European Civilization, 1500-1914	
OR	
HIST 105 Emergence of European Civilization, 1500-1914	
HIST 106 Contemporary Europe, 1914 to the Present	
Non-Western/Latin American History	6
(One course from TWO of the following areas)	
Asia: China, India, Japan, Islamic	
Africa	
Latin America	
HIST 400 Senior Seminar in History	3

Electives

Select four history courses at the 200-400 level 12

Teacher Certification

(Social Studies)

Students wishing teacher certification must be admitted to the Teacher Education program and follow the professional sequence outlined in this catalog. The course SOSC 401 Methods of Teaching Social Studies is the departmental requirement.

The social studies teacher is expected to have a broad understanding of the cultural and environmental factors which shape the individual and society. To meet the approved program for certification in social studies, course work is required in each of the following: anthropology, economics, geography, history, political science and sociology. A detailed description of the requirements is available in the office of the faculty program counselor in the School of Humanities and Social Sciences.

Courses of Instruction

HIST 100
THE STUDY OF HISTORY 3.0
The course is designed to introduce students to the nature of history as a scholarly intellectual pursuit. It is built around student activities dealing with the materials and typical research procedures used by historians and the challenges of criticizing and writing history at the beginner's level.

HIST 103
FOUNDATIONS OF WESTERN CIVILIZATION 3.0
Origins and development of Western civilization to about 1350: Egyptian, Judaic, Greek, Roman, Islamic and Medieval European contributions. Meets the General Education Requirement - Social Science, American/European History.

HIST 105
EMERGENCE OF EUROPEAN CIVILIZATION, 1500-1914 3.0
The emergence of Europe as a distinctive world civilization. The development of ideas, institutions and technologies from medieval times to World War I. Meets the General Education Requirement - Social Science, American/European History.

HIST 106
CONTEMPORARY EUROPE, 1914 TO THE PRESENT 3.0
European society in transition since World War I. The role of two world wars in shaping contemporary times. Meets the General Education Requirement - Social Science, American/European History.

HIST 108
INTRODUCTION TO AFRICAN CIVILIZATION 3.0
Pre-Colonial African civilization and its eclipse under slavery and the Colonial onslaught. Principal social, political and cultural systems of the period. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

HIST 109
INTRODUCTION TO ISLAMIC CIVILIZATION 3.0
Examination of various institutions and value systems in Islam which characterize it as a major civilization. Important cultural developments as they are affected by the process of transition. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

HIST 110
INTRODUCTION TO AMERICAN CIVILIZATION 3.0
The mainstreams of development in American civilization. Political, intellectual, social, economic and cultural forces and achievements which have made the United States distinctive. Meets the General Education Requirement - Social Science, American/European History.

HIST 111
CONTEMPORARY AMERICAN ISSUES IN HISTORICAL PERSPECTIVE 3.0
Examines contemporary issues in American society in historical perspective. Topics will vary from semester to semester in the light of changing problems confronting our society. Meets the General Education Requirement - Social Science, American/European History.

HIST 114
EARLY LATIN AMERICAN CIVILIZATION 3.0
The components of Latin American civilization. Considered are the geographical background and developments of the Mayan, Incan, and Aztec civilizations, the Spanish and Portuguese backgrounds and the wars of independence. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

HIST 115
HISTORY OF PUERTO RICO 3.0
The history and culture of Puerto Rico and interaction with Spain, Latin America and the United States. Meets the Multicultural Awareness Requirement.

HIST 116
MODERN LATIN-AMERICAN CIVILIZATION 3.0
Major themes in Latin American history during the 19th and 20th centuries with emphasis on the struggle for freedom, equality, and economic independence.

HIST 117
HISTORY OF THE UNITED STATES TO 1876 3.0
Issues and problems in the development of the American nation from discovery and exploration to the Civil War and Reconstruction. Meets the General Education Requirement - Social Science, American/European History.

HIST 118
HISTORY OF THE UNITED STATES SINCE 1876 3.0
Issues and problems in the development of the American nation from the Civil War to the present. Meets the General Education Requirement - Social Science, American/European History.

HIST 128
PREMODERN JAPAN: A HISTORY OF JAPAN TO THE MEIJI RESTORATION 3.0
This is an introductory survey course in Japanese history from earliest times to the Meiji (1868-1912). It is a first step in Japan studies designed to provide a broad, useful, working knowledge of key aspects of traditional Japan. Culture, politics, society and economy will be built into a chronological, historical structure. Japan's uniqueness will be outlined against a background of greater East Asian and world interactions. This course will stand on its own, but will also serve as a useful background to understanding modern and contemporary Japan. The course also aspires to sensitizing students to the inherent value of East Asian culture as a part of human richness and diversity.

HIST 129
MODERN JAPAN: A HISTORY OF JAPAN FROM THE MEIJI THROUGH THE SHOWA 3.0
This is an introductory survey course in Japanese history from the Meiji (1968-1912) through the Showa (1925-1989). While it would be useful to study premodern Japan before taking this course, Modern Japan does stand on its own. A review of traditional Japan will be followed by study of the dynamic interaction of Japan and the West during the 19th Century. Japan's expansionism, World War II and the postwar period will be important topics. Cultural, military, economics, political, and social developments will be discussed in historical settings. Students will be encouraged to appreciate the unique dynamics of Japan's development as a modern nation state and to explore the likely progress of Japan into the 21st Century.

HIST 131
INTRODUCTION TO INDIAN CIVILIZATION 3.0
The early history of India, 3000 B.C. to 1000 A.D. Principal religions, political and literary works, and their insights into Indian social values and institutions. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

HIST 132
INTRODUCTION TO CHINESE CIVILIZATION 3.0
The early history of China, 2000 B.C. to 1300 A.D. Principal social, political and metaphysical-philosophic works, corresponding values and institutions. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

HIST 133
MODERN CHINESE CIVILIZATION 3.0
Modern China, 1600 to the present. Changes in values and mutual influence East and West, studied through literary, philosophical, anthropological, historical and artistic works. Meets the Multicultural Awareness Requirement.

HIST 141
FOUNDATIONS OF GLOBAL CIVILIZATION 3.0
The increasing interaction between world cultures and civilizations during A.D. 1500-1914. The central role of Europe in the development of the first global phase of world history to 1914. Cultural confrontation between West and non -West in the age of Modern Imperialism.

HIST 142
20TH CENTURY GLOBAL CIVILIZATION 3.0
The increasing interaction between world cultures and civilizations from 1914 to the present, the significance of World War I and II in world history. Contemporary world problems and issues in historical perspective.

HIST 204
THE SECOND WORLD WAR 3.0
A study of the origins and course of World War II in Europe, Asia and the Pacific.

HIST 212
SOCIAL HISTORY OF THE UNITED STATES 3.0
Social and cultural aspects of American history. Population movements, rural and urban problems, status of women, utopian ventures, mass media, recreation, human rights.

HIST 213
ECONOMIC HISTORY OF THE UNITED STATES 3.0
Major trends in agriculture, commerce, finance, manufacturing, transportation and industrial relations from colonial beginnings to the present. Also listed as ECON 213.

HIST 214
DIPLOMATIC HISTORY OF THE UNITED STATES 3.0
Evolution of American foreign policy and diplomacy from the Revolution to the present. Selected basic readings in the field.

HIST 215
WOMEN IN AMERICAN HISTORY 3.0
The changing role and status of women in American society from colonial times to the present. Meets the Multicultural Awareness Requirement.

HIST 217
HISTORY OF BLACK AMERICANS 3.0
Role of Americans of African descent in the development of the United States. Contributions of Black Americans from initial discovery and exploration to mid-20th century. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

HIST 218
POLITICAL HISTORY OF THE UNITED STATES 3.0
The historical development of American political institutions from the early 1700's to the present. Focus upon the evolution of constitutional and legal structures, the party system and pressure groups, the role of bureaucracies and the impact of political leaders.

HIST 219
SPORT IN HISTORY 3.0
This course takes a global approach to the history of sport, but focuses on the role of sport in American history. It examines sport in early world cultures, the development of sport as a mass spectator phenomenon in modern times, and the social significance of sport in the contemporary world.

HIST 221
EUROPE'S CONQUEST OF THE AMERICAS, 1415-1763 3.0
A study of European explorations, discoveries and territorial settlements in the Americas during the 15th to the 18th century. Examination of the expansion and impact of Europe institutions, ideas, traditions, technologies, and resulting confrontations with and impact on native American peoples.

HIST 222
ECONOMIC HISTORY OF EUROPE 3.0
European economic development from the Middle Ages to the present. Emphasis on the first industrial revolution in Britain; comparing 19th century economic growth in Britain, France, Germany and Russia. Also listed as ECON 222.

HIST 223
COMMUNIST REVOLUTION IN CHINA 3.0
Ideological and historical significance studied against the background of domestic and international events, personalities and ideologies. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

HIST 225
THE POLES, CZECHS, SLOVAKS AND HUNGARIANS SINCE 1815 3.0
This survey examines the history of East Central Europe since the Congress of Vienna. The spread and impact of nationalism, democracy, fascism and communism will be considered.

HIST 281
GREEK CIVILIZATION 3.0
The political, social, economic, and cultural history of the Greek world from the Bronze Age to the Roman Conquest as seen through literary, documentary, and archaeological sources. Meets the General Education Requirement - Social Science American/European History. Also listed as GNHU 281.

HIST 282
ROMAN CIVILIZATION 3.0
The political, social, economic, and cultural history of the Roman world from the Regal Period to Justinian as seen through literary, documentary and archaeological sources. Meets the General Education Requirement - Social Science, American/European History. Also listed as GNHU 282.

HIST 309
FEMINIST IDEAS IN WESTERN THOUGHT 3.0
History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecroft, Fuller, Mill, and Freud will be considered against their socio-historic milieu.

HIST 310
IMMIGRANT IN AMERICAN HISTORY 3.0
The processes by which the immigrant was incorporated into American society. Includes the cultural backgrounds from which the different groups came; the reasons for emigration; the nature of the communities they created once they reached the United States; their religious social institutions; the problems of maintaining ethnic culture with the pressure to Americanize.

HIST 311
EARLY HISTORY OF NEW JERSEY 1702-89 3.0
From royal colony to the establishment of the federal government under the constitution, state and local events during the American revolution.

HIST 312
HISTORICAL GEOGRAPHY OF THE UNITED STATES 3.0
The slow pace of settlement of the eastern seaboard and the development of distinctive culture hearths prior to 1800; the rapid settlement and diffusion of culture traits in the area beyond the Appalachians since 1809. Also listed as EUGS 312.

HIST 313
BIOGRAPHY IN AMERICAN HISTORY 3.0
The significant biographical materials available in the study of American history; the problems and uses of biography.

HIST 315
WAR IN HISTORY 3.0
Examines selected wars in the history of the world in an attempt to learn about causes and consequences of war. Considers attempts to prevent war in the past, and proposed methods for preventing war in the future.

HIST 320
AMERICAN URBAN HISTORY SINCE 1880 3.0
Transformation of the 19th century industrial city into the 20th century metropolis. The emergence of the New York metropolitan region.
Prerequisite: HIST 211 or equivalent background.

HIST 321
HISTORY OF THE AMERICAN WORKER SINCE 1877 3.0
History of the American worker rather than his trade union. The worker's legal status, political behavior, social and cultural activities treatment by employer and state.

HIST 322
MEDIEVAL EUROPEAN CIVILIZATION 450-1350 3.0
Origins, development, and significance of a civilization whose political, social and cultural foundations had a spiritual basis and unity.

HIST 323
HISTORY OF RUSSIA TO 1917 3.0
Factors shaping the Russian people: Byzantium and Greek Orthodox faith. tartar state organization, the Mir, Westernization from Peter to Lenin, intellectual and radical movements.

HIST 324
RUSSIA SINCE 1917 3.0
Political, social, economic and intellectual developments in the Soviet Union; the relationship of ideology and national goals.

HIST 327
HISTORY OF FRANCE SINCE 1789 3.0
Political, social, economic and intellectual developments in France since the Revolution.

HIST 328
CONFLICT IN MODERN IRELAND 3.0
A history of Irish nationalism with emphasis on the period from 1782 to the present.

HIST 329
HISTORY OF ENGLAND TO 1714 3.0
Emphasis on political and constitutional history, the formation of basic institutions of law and government and related economic, social and cultural factors.

HIST 330
CHINESE SOCIAL HISTORY THROUGH LITERATURE 3.0
Masterpieces of the Chinese literary tradition from earliest times to the 20th century. Literary genre in historical perspective and as expression of social and cultural values.

HIST 331
HISTORY OF ENGLAND 1714-1914 3.0
Political, social and economic history from the Hanoverian succession to the 20th century: industrial revolution, changing balance of the Constitution, British Imperialism, the Irish Question.

HIST 333
HISTORY OF BRAZIL 3.0
Traces the historical development from the pre-historical Indian cultures to the 1970's; covers the social, cultural, political, economic and religious aspects of the largest Latin-American nation.

HIST 400
SENIOR SEMINAR IN HISTORY 3.0
Directed research and preparation of seminar reports and written paper on special topics in the main fields of history. Required for senior history majors.
Prerequisite: HIST 100, 21 semester hours in History.

HIST 406
HISTORY OF AMERICAN BUSINESS 3.0
Provides historical background toward understanding the present role business plays in American society. Examines the role of the entrepreneur and business manager in the evolution of American business.

HIST 408
INDEPENDENT STUDY EUROPEAN HISTORY 3.0
To provide opportunity for students, mainly history majors, to do independent work in the field of European history.

HIST 409
INDEPENDENT STUDY NON-WESTERN HISTORY 3.0
To provide opportunity for students, mainly in history or transcultural studies, to do independent work in the field of non-Western history.

HIST 410
INDEPENDENT STUDY IN AMERICAN HISTORY 3.0
To provide an opportunity to do independent work in the field.

HIST 411
INTELLECTUAL HISTORY OF THE UNITED STATES 3.0
Development and contributions of the thought of individuals and groups, dominant and minority, and their effect on the American mind, traditions and practices.

HIST 414
THE PHILOSOPHY OF HISTORY 3.0
Development of historical thought and the writing of history in the Western world from Herodotus to the present.

HIST 416
CHURCH AND STATE IN LATIN AMERICA 3.0
The Roman Catholic Church as the major spiritual institution as well as a cultural, moral, political and economic force in Latin America.

HIST 419
AGE OF RENAISSANCE 1350-1517 3.0
Political, economic, social and broad cultural developments in Italy and Western Europe during 1350-1517.

HIST 420
THE REFORMATION ERA 1500-1650 3.0
Religious movements of the 16th and 17th centuries; their medieval antecedents; the accompanying political, intellectual and socioeconomic forces.

HIST 422
STUDIES IN ENLIGHTENMENT HISTORY 3.0
Major intellectual developments in 18th century Europe: rise of skepticism, toleration, empiricism, idea of progress. Readings in Hume, Voltaire, Diderot, Rousseau, Kant and antecedent figures.
Prerequisite: HIST 105 or equivalent background.

HIST 424
DIPLOMATIC HISTORY OF EUROPE 3.0
Diplomatic history of Europe since the Congress of Vienna. Emphasis on development of diplomatic practice and relations between states during 1870 to present.

HIST 426
THE NAZI THIRD REICH 3.0
Major economic, social, political and intellectual developments in 20th century Germany. Demise of Weimar Republic and ascension of Nazi Third Reich.
Prerequisite: HIST 106 or equivalent background.

HIST 430
REVOLUTIONS IN LATIN AMERICAN HISTORY 3.0
Examines and compares the causes, course and consequences of three major social revolutions in Latin America: Mexico (1910), Bolivia (1952), Cuba (1959).

HIST 431
DEVELOPMENT OF INDIAN CHARACTER AND CULTURE 3.0
The historical conditioning of Indian behavior. Culture change in the perspective of colonialism and modernization; contributions of religion to social and political values and modern literature. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.
Prerequisite: HIST 131.

HIST 432
DEVELOPMENT OF JAPANESE CHARACTER AND CULTURE 3.0
The historical conditioning of Japanese behavior. Cultural change in the perspective of traditional periodization of Japanese history. Contributions of religion and philosophy in defining social values. Also listed under Anthropology as ANTH 432. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

HIST 433
AMERICAN COLONIAL HISTORY 1607-1763 3.0
Developments within the English colonies, interactions between England and the colonists, growth of a distinctive American society.

HIST 434
AMERICAN REVOLUTION AND EARLY REPUBLIC 1763-1828 3.0
Analysis of events leading to the war for independence; political, economic and foreign problems of the new nation; the growth of nationalism.

HIST 435
THE UNION IN CRISIS 1820-1877 3.0
Significant events and developments of the period: Jacksonian democracy, Westward expansion and sectionalism, the Civil War and Reconstruction.

HIST 436
AMERICA IN THE GILDED AGE 3.0
The forces which contributed to the development of modern, industrialized America; American society and its reaction to changes of the period.

HIST 437
AMERICAN SOCIETY IN THE 20TH CENTURY 3.0
The continuing reactions to the problems of an industrialized America. The New Deal and recent Supreme Court decisions.

HIST 438
AMERICA IN THE SIXTIES: THE CRISIS OF CONSENSUS LIBERALISM 3.0
Analyzes the crisis of American liberalism as that ideology was beset by the consequences of postwar affluence and the growing radicalism during the Kennedy-Johnson administration; and the backlash that developed into the Nixon "New Majority".

HIST 443
INTERNSHIP IN HISTORY 3.0
Opportunity for the advanced student to acquire practical experience working directly with primary sources of history in state and local depositories of historical materials.
Prerequisites: 21 semester hours prior course work in history and permission of program coordinator.

SOSC 223
SIMULATION GAMES AND GLOBAL PROBLEMS 3.0
An innovative course utilizing both simulation games and books to inquire into the substantive problems of peace and justice, the ways and means of designing future change, and the uses of simulation techniques as a teaching/learning device.

SOSC 401
METHODS OF TEACHING SOCIAL STUDIES 3.0
Presents recent trends in educational method in teaching the social studies. A program is presented containing the correlation of subject matter organization in socialized recitation, the teaching of current events, projects in citizenship, and the use of the project-problem as a method of teaching history and civics.

HOME ECONOMICS

SCHOOL OF PROFESSIONAL STUDIES

Chairperson: Elaine Flint

Home Economics is concerned with the study of individuals and families, their environments, needs, problems and futures. The department offers six specializations which synthesize, interrelate, and integrate knowledge from other disciplines toward understanding and finding solutions to concerns of individuals and families.

A Bachelor of Science degree is offered in Foods and Nutrition and Food Service Management; the Bachelor of Arts degree is offered in Consumer Affairs, Family and Child Studies, Fashion Studies, and Home Economics Education. Students may prepare to teach, work with businesses, agencies, government programs, other institutions and/or pursue graduate study. Courses are open as electives for those majoring in other fields of study.

Montclair State College's Home Economics unit is accredited by the Council for Professional Development of the American Home Economics Association.

Home Economics Major

Required Courses (All Concentrations)

			Semester Hours
HECO	100	Professional Orientation	2
HECO	304	Introduction to Research	3
HECO	400	Senior Seminar	1
HEMG	270	Individual Management: Theories and Strategies	3
HEFM	140	Family in Society	3
HENU	182	Nutrition	3

Concentration Programs Within the Major

Consumer Affairs Concentration

Required Courses

			Semester Hours
HECO	409	Internship in Home Economics	8-12
HEMG	335	Consumers in the Market	3
HEMG	435	Consumer Action	3
HEMG	470	Family Management	3
HEFM	445	The Inner City Family	3

12 semester hours in one of these areas: Consumer Services; or Food, Nutrition, Food Service Management; or Housing, Interior Design, Household Equipment 12

Collateral Courses

MKTG	340	Introduction to Marketing	3
STSP	234	Fundamentals of Public Speaking	3
PHIL	210	Ethics	3
PSYC	101	General Psychology I: Growth and Development	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3
MGMT	311	Management Process and Organizational Behavior	4
		Political Science Course	3

Electives (General)

Select 20 semester hours from the appropriate list to be obtained from the department 20

Family and Child Studies Concentration

Required courses for Applied Family/Child Studies and Nursery-Eighth Grade (N-8) Teacher Programs

			Semester Hours
HECO	141	Interpersonal Relations	3
HECO	448	Family Counseling	3
HEMG	231	The Family in the Economic System	3
HEFM	214	Child Development I	3
HEFM	215	Infant Development	3
HEFM	314	Child Development II	3
		OR	
HEFM	416	Creative Experiences I: Expressive Media	3
HEFM	315	Field Experiences in Family and Child Services	3
HEFM	320	Parenting Skills and Resources	3
		OR	
HEFM	418	Strategies for Working with Parents	3
HEFM	342	Family Sociology	3
		OR	
SOCI	204	Sociology of the Family	3
HEFM	445	The Inner City Family	3

I. Applied Family/Child Studies Professional Sequence Required Courses

			Semester Hours
HECO	205	Women in Contemporary Society	3
HECO	344	Challenge of Aging	3
HECO	409	Internship in Home Economics or its equivalent from a minor	8

Strongly Recommended Courses

HLTH	290	Human Sexuality	3
PHIL	210	Ethics	3
PSYC	101	General Psychology I: Growth and Development	3

Electives

Select from requirements for a minor or from the list of recommended courses to be obtained from the department 11

II. Nursery-Eighth Grade (N-8) Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog with the following exception: READ 400 Foundations of Reading Instruction substitutes for the course in reading. Refer to Teacher Education Program requirements outlined in this catalog. In addition, the following courses must be taken:

HEFM	319	Language and Literature for Young Children	3
HEFM	417	Creative Experiences II: Cognitive Development	1
HEFM	420	Program Planning in Early Childhood Education	3
PSYC	201	Child Psychology	3

Fashion Studies Concentration

Required Courses

			Semester Hours
HECO	409	Internship in Home Economics	8
HEDN	265	Interior Design	3
HETX	122	Clothing and Culture	3
HETX	220	Textile and Apparel Industry	3
HETX	298	Textiles I: Introduction	3
HETX	320	Historical Analysis of Fashion	3
HETX	325	The Marketing of Fashion	3
HEMG	435	Consumer Action	3

Collateral Courses

MGMT	311	Management Process & Organizational Behavior	4
MKTG	340	Introduction to Marketing	3
ARGN	101	Design Foundations of Visual Organization I	3
ARHS	105	Art in Western Civilization: Ancient to Medieval	3
CHEM	100	Introductory Chemistry	4
PSYC	101	General Psychology I: Growth and Development	3
ANTH	100	Cultural Anthropology	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3
Studio Art course			3

General Education

French, Spanish or Italian to fulfill foreign language requirement 6

Electives

Select 16 semester hours from the appropriate list to be obtained from the department 16

Foods and Nutrition Concentration

Required Courses for all Programs

		Semester Hours
HENU	150 Principles of Food Preparation	3
HENU	153 Food and People	3
HENU	255 Meal Design and Management	3
HENU	282 Applied Nutrition in the Life Cycle	4
HENU	357 Experimental Foods	3
BIOL	254 Applied Microbiology	3
ECON	101 Principles of Economics: Macro	3
	OR	
ECON	102 Principles of Economics: Micro	3

Note: ECON 100 Introduction to Economics may be substituted for ECON 101 or 102 for dietetics majors only.

Options within the Foods and Nutrition Concentration

I. Foods and Nutrition-General

HEED	412 Nutrition Education Techniques	3
HEMG	435 Consumer Action	3
CMPT	108 Computers and Programming	3
ENWR	315 Magazine Journalism	3
CHEM	109 College Chemistry Laboratory I	1
CHEM	111 Elements of Chemistry I	3
CHEM	130 Fundamentals of Organic Chemistry	4

Choose 6 credits from the following 6

HECO	408 Workshop in Home Economics: Sensory Evaluation	3
HENU	382 Advanced Nutrition	4
HENU	456 Research in Foods	3
HENU	482 Nutrition Counseling	3
HEFD	253 Quantity Food Purchasing and Production	3

Electives 33

II. Foods and Nutrition-Dietetics*

HEED	412 Nutrition Education Techniques	3
HENU	382 Advanced Nutrition	4
HENT	482 Nutrition Counseling	3
HENU	488 Diet Therapy	4
HEFD	252 Quantity Food Purchasing and Production Laboratory	2
HEFD	253 Quantity Food Purchasing and Production	3
HEFD	352 Organization and Management of Food Service Systems	3
BIOL	243 Human Anatomy and Physiology	4
CHEM	109 College Chemistry Laboratory I	1
CHEM	111 Elements of Chemistry	3
CHEM	130 Fundamentals of Organic Chemistry	4
CHEM	270 Fundamentals of Biochemistry	5
CMPT	108 Computers and Programming	3
MATH	109 Statistics	3
MGMT	311 Management Process and Organizational Behavior	4
PSYC	101 General Psychology I: Growth and Development	3

Electives 0-8

* Careful advisement is recommended so that requirements of the American Dietetics Association might be met.

III. Foods and Nutrition-Food Technology

HECO	408 Workshop in Home Economics: Sensory Evaluation	3
HEMG	435 Consumer Action	3
HEFM	456 Research in Foods	3
HEFD	254 Food Service Equipment Facilities Design	3
CMPT	108 Computers and Programming	3
MATH	115 Precalculus Mathematics	3
MATH	122 Calculus I	4
PHYS	191 General Physics I	4
PHYS	192 General Physics II	4
CHEM	120 General Chemistry I	4
CHEM	121 General Chemistry II	4
CHEM	230 Organic Chemistry I	3
CHEM	231 Organic Chemistry II	3
CHEM	232 Experimental Organic Chemistry I	2

Highly recommended courses for this area of study

HEFD	253 Quantity Food Purchasing and Production	3
MGMT	311 Management Process and Organizational Behavior	4
MKTG	340 Introduction to Marketing	3
MKTG	341 Consumer Behavior	3
ENWR	207 Technical Writing	3
MATH	109 Statistics	3

Electives 14

American Dietetics Association

In addition to taking course requirements listed for the Home Economics major and the Food and Nutrition concentration, a student who wishes to fulfill the minimum requirements for professional training of the American Dietetics Association should contact the department for current requirements.

Food Service Management Concentration

Required Courses

		Semester Hours
HECO	409 Internship in Home Economics	8
HENU	150 Principles of Food Preparation	3
HENU	153 Food and People	3
HEFD	252 Quantity Food Purchasing and Production Laboratory	2
HEFD	253 Quantity Food Purchasing and Production	3
HEFD	254 Food Service Equipment and Facility Design	3
HEFD	352 Organization and Management of Food Service Systems	3
HEFD	353 Specialized Food Production	3

Collateral Courses

BIOL	242 Human Biology	3
BIOL	254 Applied Microbiology	3
BSLW	261 Legal Environment of Business I	3
ACCT	200 Accounting for Non-Business Majors	3
MGMT	316 Human Resource Management	3
	OR	
PSYC	240 Industrial and Organizational Psychology	3
MGMT	311 Management Process & Organizational Behavior	4
MKTG	340 Introduction to Marketing	3
CMPT	108 Computers and Programming	3
CHEM	107 College Chemistry I	2
CHEM	109 College Chemistry Laboratory I	1
CHEM	130 Fundamentals of Organic Chemistry	4
PSYC	101 General Psychology I: Growth and Development	3
ECON	101 Principles of Economics: Macro	3
ECON	102 Principles of Economics: Micro	3

Electives

Select 9-10 semester hours from the appropriate list to be obtained from the department 9-10

Home Economics Education Concentration

Required Courses

			Semester Hours
HEED	201	Introduction to Home Economics Education	3
HECO	141	Interpersonal Relations	3
HEDN	160	Equipment in the Home	3
HEDN	260	Housing and Society	3
HETX	120	Clothing Construction	3
HETX	122	Clothing and Culture	3
HETX	298	Textiles I: Introduction	3
HEMG	435	Consumer Action	3
HEMG	470	Family Management	3
HEFM	214	Child Development I	3
HENU	150	Principles of Food Preparation	3
HENU	255	Meal Design and Management	3
Home Economics Elective			3

Collateral Courses

PSYC	101	General Psychology I: Growth and Development	3
ECON	101	Principles of Economics: Macro	3
		Anthropology or Sociology	3

Home Economics Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. In addition, the course HEED 309 Teaching of Home Economics must be taken.

Courses of Instruction

HECO 141
INTERPERSONAL RELATIONS 3.0
Relevant and up-to-date information about meaningful human relationships throughout the life cycle. Meets the General Education Requirement - Electives, Personal/Professional Issues.

HECO 205
WOMEN IN CONTEMPORARY SOCIETY 3.0
Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement.

HECO 300
FIELD TRIP EXPERIENCES IN HOME ECONOMICS 1.0
An opportunity to study the policies, problems and contributions of business, industry and community agencies which relate to families as consumers.

HECO 304
INTRODUCTION TO RESEARCH 3.0
Provides awareness of the contributions of research to the advancement of human welfare. Developing skills for intelligent pursuit and consumption of research. Not for freshmen.

HECO 308
INDEPENDENT STUDY 1.0-3.0
Advanced areas of Home Economics not offered in the regular curriculum.
Prerequisite: Junior or senior standing.

HECO 344
CHALLENGE OF AGING 3.0
The change over the adult life span as it affects family interaction and resources in various sub-cultures. Implications for social policy and institutions relative to an increasing aging population. Field participation with agencies and elders; minimum 6 hours contact - more encouraged. Meets the General Education Requirement - Contemporary Issues.

HECO 408
WORKSHOP IN HOME ECONOMICS 1.0-3.0
Opportunity to study selected current problems in the field of home economics.

HECO 409
INTERNSHIP IN HOME ECONOMICS 8.0-12.0
Opportunity to work as an intern, with a professional home economist in business, a community agency or an organization.
Prerequisite: Senior standing, admission to program. Application available in Home Economics department.

HECO 448
FAMILY COUNSELING 3.0
Techniques and theories of collecting data and counseling families with such problems as money management, nutrition concerns, parent-child relationships and value conflicts.
Prerequisites: 30 semester hours in home economics, junior or senior standing.

HEDN 160
EQUIPMENT IN THE HOME 3.0
Principles and resources involved in the selection, use and care of equipment in the home.

HEDN 260
HOUSING AND SOCIETY 3.0
This survey course examines housing as a product and a process which affects and is affected by families and households throughout the life cycle. Housing viewed through an interdisciplinary perspective is seen as influenced by household preferences and societal factors. Meets the General Education Requirement - Contemporary Issues.

HEDN 265
INTERIOR DESIGN 3.0
Selection, organization and evaluation of furnishing for the residential environment. Principles and elements of design studied in relation to interior residential space.

HEDN 365
INTERIOR DESIGN II 3.0
The history of furniture, interiors and decorative arts from ancient times through the beginning of the twentieth century are analyzed. Stylistic and technical developments are traced in light of the social and historical forces that affect design.
Prerequisite: HEDN 265.

HEDN 465
INTERIOR DESIGN III 3.0
The development and aesthetics of design in the twentieth century in Europe and America. Emphasis is placed on the work of contemporary American interior designers.
Prerequisite: HEDN 365.

HEED 201
INTRODUCTION TO HOME ECONOMICS EDUCATION 3.0
Exploration of the roles of home economics educators; home economics programs; teaching environments; curriculum design and methodology. Field trips to a variety of programs followed by analysis.

HEED 309
TEACHING OF HOME ECONOMICS 3.0
Curriculum development. Materials and teaching strategies appropriate to home economics. CURR 410 Intermediate Field Experience in Education must be taken concurrently. To be taken semester prior to student teaching.

HEED 412
NUTRITION EDUCATION TECHNIQUES 3.0
Procedures and techniques for developing programs and teaching nutrition to a variety of target populations. Individual and group methods emphasize innovation.
Prerequisite: HENU 182.
Prerequisite or corequisite: HENU 282.

HEFD 252
QUANTITY FOOD PURCHASING AND PRODUCTION LABORATORY 2.0
Laboratory experiences to support basic concepts of quantity food purchasing and production. Laboratory assignments off-campus in functioning food service facilities. To be taken concurrently with HEFD 253 Quantity Food Purchasing and Production.
Prerequisites: HENU 150, 182.
Corequisite: HEFD 253.

HEFD 253
QUANTITY FOOD PURCHASING AND PRODUCTION 3.0
Determining needs, purchasing, storing, preparing and serving food in large volume.
Prerequisites: HENU 150, 182.
Corequisite: HEFD 252.

HEFD 254
FOOD SERVICE EQUIPMENT AND FACILITIES DESIGN 3.0
Selection of equipment based on needs of the food service system. Purchasing procedures.
Prerequisite: HEFD 253.

HEFD 352
ORGANIZATION AND MANAGEMENT OF FOOD SERVICE SYSTEMS 3.0
Principles of management, organizational structure, policy and decision-making. The menu in management, budgeting and cost control, sanitation and safety, personnel policies and management.
Prerequisites: HEFD 253, MGMT 311.

HEFD 353
SPECIALIZED FOOD PRODUCTION 3.0
Opportunity to study selected problems in food production in various types of food service operation. Menu planning and production for special events; terminology and techniques utilize in specialized areas of food production. Laboratory experience is included.
Prerequisites: HEFD 253, 254, 352.

HEFM 140
FAMILY IN SOCIETY 3.0
Provides basic insights and concepts from the social sciences to study the history and structure of the family as a basic but changing institution in modern America. Meets the General Education Requirement - Social Science, Topic Course.

HEFM 214
CHILD DEVELOPMENT I 3.0
A developmental approach to the young child from conception to age five. The major challenges confronting the developing child mastering the tasks of socialization and understanding the world. Supervised observation and participation with groups of young children for two and one half hours per week, each week of the semester. Field work required.
Prerequisite: PSYC 101.

HEFM 215
INFANT DEVELOPMENT 3.0
The infant as a developing individual within the family. Theory and research in the area of human infancy. Physical, cognitive and emotional growth from pre-natal through the first two years of life.

HEFM 248
FAMILY RELATIONS 3.0
The family life cycle. Courtship, adjustment in marriage, pregnancy, child rearing. Later stages of parenthood and old age.

HEFM 314
CHILD DEVELOPMENT II 3.0
The growth and development of the school-aged child (6-18). Examination of peers and family interactions, as well as the institutions of society as they influence the developing child/adolescent. Assigned activities with child/adolescents with 15 hours of field participation required.
Prerequisites: HEFM 214.

HEFM 315
FIELD EXPERIENCES IN FAMILY AND CHILD SERVICES 3.0
Planned supervised experience with selected agencies offering services for families and children. 35 hours of field work required.
Prerequisites: 30 semester hours of Family and Child Studies program.

HEFM 319
LANGUAGE AND LITERATURE FOR YOUNG CHILDREN 3.0
The qualities of children's expression through language, books, stories and poems; criteria for evaluating material for the pre-school program.

HEFM 320
PARENTING SKILLS AND RESOURCES 3.0
Opportunities for the student to develop effective parenting skills and the knowledge about human development needed for the application of these skills. Impact of parenting resources on both parents and non-parents. Local, state and national resources examined. Assigned activities with children. Meets the General Education Requirement - Electives, Personal/Professional Issues.

HEFM 342
FAMILY SOCIOLOGY 3.0
Familiarizes students with data relating to the family as an institution, its development, dynamics and place in society. The impact of rapid social change on the American family. Not open to freshmen.

HEFM 414
ORGANIZATION AND MANAGEMENT OF CHILD CARE CENTERS 3.0
Basic principles of supervision and administration applied to developing a sound program in a modern pre-school program. The learning process applied to the professional development of staff. Organization and administration of individual classrooms and the total school program; the relationship of the school to community services and agencies.
Prerequisite: HEFM 214, junior/senior standing.

HEFM 416
CREATIVE EXPERIENCES I: EXPRESSIVE MEDIA 3.0
Curriculum experiences designed to nurture young children's self-expression and creativity in areas of art, music, dramatic play, woodworking and block play.
Prerequisites: HEFM 214, junior/senior standing, majors only.

HEFM 417
CREATIVE EXPERIENCES II: COGNITIVE DEVELOPMENT 3.0
Provides an opportunity for students preparing to teach young children to have workshop experiences related to the physical and social world. Appropriate curriculum materials and activities in the areas of science, math and social studies will be discussed and presented.
Prerequisite: HEFM 416, majors only.

HEFM 418
STRATEGIES FOR WORKING WITH PARENTS 3.0
Establishing a positive team approach between the parent and teacher. Parent-teacher interaction. How the teacher interprets parental anxieties, and conducts individual conferences and group meetings.
Prerequisite: HEFM 214.

HEFM 420
PROGRAM PLANNING IN EARLY CHILDHOOD EDUCATION 3.0
Principles of curriculum development for programs for pre-school children. Taken the semester prior to student teaching.
Corequisite: CURR 410 Field Experience in Education.

HEFM 445
THE INNER CITY FAMILY 3.0
Sub-cultures residing in large cities. The impact of urbanization, ethnicity, social and economic institutions. Problems which families encounter. Community contact is part of the course. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: Junior/senior standing.

HEMG 231
THE FAMILY IN THE ECONOMIC SYSTEM 3.0
The family as an economic unit in society. Economic behavior of various subcultures, age groups and family patterns. Meets the General Education Requirement - Social Science, Topic Course.

HEMG 270
INDIVIDUAL MANAGEMENT: THEORIES AND STRATEGIES 3.0
Opportunity to investigate management theories and apply them to personal life. Influences on, and blocks to, personal management, problem solving, planning, and expediting. Required of majors. Meets the General Education Requirement - Contemporary Issues.

HEMG 331
MONEY MANAGEMENT 3.0
The role and meaning of money in individual and family living; income as a means of acquiring a style of life; the effective control of income in spending, saving, credit purchases and providing for future needs.

HEMG 335
CONSUMERS IN THE MARKET 3.0
The consumer perspective of the marketplace. Emphasis on developing research skills and understanding laws, regulations and agencies that affect the consumer. Not for freshmen.

HEMG 435
CONSUMER ACTION 3.0
The market place as a social, psychological and economic institution serving consumers. Emphasis on consumer motivation, market organization, pricing and selling strategies: trends and current issues which affect the quality and availability of goods and services.
Prerequisites: ECON 101 or ECON 102; HECO 304.

HEMG 470
FAMILY MANAGEMENT 3.0
Opportunity to analyze situations in which individuals and families use resources to maintain daily life and solve problems. Roles, goals, decision making, use of human and nonhuman resources and factors influencing household management.
Prerequisite: HEMG 270.

HENU 150
PRINCIPLES OF FOOD PREPARATION 3.0
Principles of basic food science involved in preparation of standard food products. Food selection and purchasing.

HENU 153
FOOD AND PEOPLE 3.0
Discussion of diverse factors which influence food selection in various cultures. World food patterns, nutritional significance of a changing food supply. Meets the General Education Requirement - Contemporary Issues.

HENU 182
NUTRITION 3.0
The nutrients in food, their functions in the human body, and diet requirements for people in various age groups. Meets the General Education Requirement - Natural/Physical Science, Non-Laboratory Science Only.

HENU 255
MEAL DESIGN AND MANAGEMENT 3.0
A course designed to include the design and delivery of meals for individuals and families. Special emphasis on nutrition and economic needs balanced with current life styles. Principles involved in meal management will be practiced and illustrated through class labs.
Prerequisites: HENU 150, 182.

HENU 257
INTRODUCTORY FOOD SCIENCE 3.0
An introduction to the science of food, with emphasis on the study of the constituents of food and the chemical, physical and biological reactions occurring in food that affect safety, nutritional, sensory and economical changes during processing and storage. This course is appropriate for students in food and nutrition, food service management, biology, chemistry, and health sciences.
Prerequisites: CHEM 111 or 109 and 107.

HENU 282
APPLIED NUTRITION IN THE LIFE CYCLE 3.0
The application of basic nutritional knowledge to community programs and agencies. Assessing nutrition problems in community settings and planning and evaluating programs to deal with those problems. Analysis of the physiological, biochemical, psychological and social factors that affect nutrient needs in the life cycle.
Prerequisite: HENU 182.

HENU 357
EXPERIMENTAL FOODS 3.0
Scientific principles underlying food preparation. Laboratory experiments illustrate the effect of varying ingredients and preparation procedures on the quality of food products.
Prerequisites: HENU 150, CHEM 130.

HENU 382
ADVANCED NUTRITION 3.0
The physiological and chemical bases for nutrient needs, mechanisms through which nutrients meet the biological needs of humans, evaluation and interpretation of research findings.
Prerequisites: BIOL 243, CHEM 270, HENU 182.

HENU 456
RESEARCH IN FOODS 3.0
Scientific method in the design and execution of experimental food studies and in the interpretation and evaluation of results. Independent laboratory research.
Prerequisites: HENU 150, 357.

HENU 482
NUTRITION COUNSELING 3.0
This course offers practical experience dealing with the principles of marketing, adult learning, helping skills, data analysis, record keeping, and evaluation as related to weight control and nutritional assessment. Twenty hours of clinical experience is required.
Prerequisite: HENU 282.

HENU 488
DIET THERAPY 4.0
The application of basic nutritional principles and diet to the treatment of diseases and conditions other than normal.
Prerequisites: HENU 382.

HENU 489
EXTERNSHIP IN FOOD AND NUTRITION 3.0
A supervised experience in selected quantity food services, agencies, clinics or organizations involved in foods and nutrition problems of the community.
Prerequisites: HENU 382, HEFD 253, instructor's permission.

HETX 120
CLOTHING CONSTRUCTION 3.0
Theory and techniques for achieving well-fitted apparel; basic concepts, competencies and technologies using appropriate fabrics and commercial patterns.

HETX 122
CLOTHING AND CULTURE: A MULTIDISCIPLINARY STUDY 3.0
Analysis of dress in terms of cultural, social, psychological and economic influences. Clothing choices related to individual concerns, including esthetic, physical and ecological factors. Meets the General Education Requirement - Electives, Personal/Professional Issues.

HETX 220
TEXTILE AND APPAREL INDUSTRY 3.0
In-depth study of factors which spur progress, affect supply, demand, and ultimately the consumer. History, economic structure and patterns of production, distribution and marketing of textile and clothing industries.

HETX 298
TEXTILES I: INTRODUCTION 3.0
Intensive study of fibers, yarns, fabric constructions, and finishes related to consumer concerns for use, durability, care and cost. For students with a professional interest in textiles and clothing.

HETX 320
HISTORICAL ANALYSIS OF COSTUME 3.0
The development of clothing; clothing usage in terms of social, economic and aesthetic backgrounds. Not open to freshmen.

HETX 322
FIELD VISITS TO CLOTHING AND TEXTILES FIRMS 1.0
Opportunity to observe systems of manufacture, distribution and marketing of textile merchandise.
Prerequisite: Instructor's permission.

HETX 325
THE MARKETING OF FASHION 3.0
This course is an exploration of the fashion business with an emphasis on the marketing of apparel, accessories and home furnishings. Problems and trends at the wholesale and retail levels will be explored. Not open to freshmen.

HETX 398
TEXTILES II: PRODUCTION AND PERFORMANCE 3.0
Basic information is used in the study of fabric production. Development and implementation of textile standards, impact of socio-economic forces, trends in merchandising, and consumership are discussed. Field experience included.
Prerequisite: HETX 298 or instructor's permission.



LEGAL STUDIES

SCHOOL OF HUMANITIES AND
SOCIAL SCIENCES
Chairperson: Marilyn R. Tayler

Legal Studies is unified in terms of the broad discipline and also overall ultimate career objective. The Department of Legal Studies provides a cohesive structure which preserves the interdisciplinary nature of the legal field. The thrust of the Department is threefold:

- to unify the Paralegal and Pre-Law Programs into a single resource unit for students interested in the legal field;
- to provide appropriate counseling and information for students;
- to represent Montclair State College's leadership role in undergraduate legal studies in relation to law schools, the organized bar and the general public through activities such as conferences, research and consultation projects.

The Department of Legal Studies affords Montclair State College students the dual possibilities of an applied career in law as a paralegal or preparation for an ultimate career as an attorney. For undergraduates, both the Paralegal and Pre-Law Programs are minors which may be combined with many diverse majors on campus. For post-baccalaureate students, there is a Paralegal Studies Certificate Program.

In the essential process of advisement, Dr. Marilyn Tayler and Dr. Barbara Nagle of the Department of Legal Studies provide academic and career advisement to both Paralegal and Pre-Law students. Dr. Marilyn Tayler, the College Pre-Law Advisor, is available to provide information to students regarding law school admission. Additionally, advisors representing many departments at the College counsel Pre-Law students regarding the best course of study within any major for students planning a career in law.

PARALEGAL STUDIES PROGRAM
(24 semester hours)

The Paralegal Studies Program offers the student a balanced and varied background in the legal fundamentals, appropriate skills, and practical field work experience necessary for work as a legal assistant. The program develops intellectual and analytical skills, educates students for direct employment opportunities in the legal assistant field, and provides supplemental career possibilities in combination with a student's major.

The Montclair State College Paralegal Studies Program is the first and only program at a New Jersey state college to receive American Bar Association approval. A Certificate of Completion is awarded to all students who meet program standards, fulfill the 24 credit hours required in the Program, and complete a Bachelor's Degree. For undergraduate students, this is an academic minor. For Post-Baccalaureate students it is a certificate program.

There are three possible concentrations within the Paralegal Studies Program: Hispanic concentration for bilingual students; Patent, Trademark and Copyright concentration; and Litigation concentration.

Paralegal Studies Minor

				Semester Hours
I.	LSPR	220	Introduction to Paralegalism	3
II.	LSPR	230	Fundamentals of Legal Research (Not open to freshman)	3
III.	LSPR	221	Civil Litigation	3
IV.	Choice of 4 of the following:			
	LSPR	301	Domestic Relations Law	3
	LSPR	302	Real Estate Law	3
	LSPR	303	Wills, Trusts, and Probate Law	3
	LSPR	304	Corporations and Partnerships	3
	LSPR	305	Personal Injury Law	3
	LSPR	306	Contract Law for Paralegals	3
	LSPR	307	Immigration Law	3
	LSPR	310	Fundamental of Patent, Trademark and Copyright Law	3
	LSPR	322	Advanced Civil Litigation	3
	LSPR	340	Computer Fundamentals for Paralegals	3
	LSPR	350	Criminal Procedure, Laws, Rules and Practice	3
	Students may substitute up to 2 courses from the appropriate list obtained from the Department.			
	Students may substitute one law-related course from the following group:			
	BSLW	261	Legal Environment of Business I	3
	LSPR	316	Skills for Bilingual Legal Personnel	3
	POLS	321	Law in Society: Criminal Law	3
V.	LSPR	325	Paralegal Seminar and Internship	3
	Students may substitute LSPR 326 Cooperative Education: Paralegal Studies (4 or 8 semester hours).			
	Total Semester Hours for the Program			**24**

Concentrations

Hispanic Concentration (for bilingual students)

Required Course:

LSPR 316 Skills for Bilingual Legal Personnel 3

Litigation Concentration

Required Courses:

LSPR 305 Personal Injury Law 3
LSPR 322 Advanced Civil Litigation 3

Patent, Trademark and Copyright Concentration

Required Courses:

LSPR 310 Fundamentals of Patent, Trademark and Copyright Law 3
LSPR 311 Patent, Trademark and Copyright Law: Practice and Procedure 3

Each course of study includes a prescribed sequence of Legal Specialty classes and an internship in the area of concentration.

PRE-LAW STUDIES PROGRAM
(21 semester hours)

The Pre-Law Studies Minor at Montclair State College is an interdisciplinary program designed to enhance the preparation of students planning to seek admission to law school by promoting the development of analytical and critical writing, reading, and thinking. The program offers students a balanced and varied background, enriching the student's academic major, in the acquisition of skills essential for success in the field of law.

Pre-Law Studies Minor

Required Courses: (6 credits)

LSLW 200 Introduction to Law and Legal Professions 3
OR
LSLW 208 Legal Process and Procedure 3
LSPR 230 Fundamentals of Legal Research 3

Essential Skills: (9 credits)

ENWR 205 Writing: Nonfiction Prose 3
ENWR 204 Advanced Expository Writing 3
GNHU 182 English Vocabulary: Classical Roots 3
LNGN 290 Language of the Law 3
MATH 109 Statistics* 3
MATH 195 Reasoning and Problem Analysis for Pre-Law and Paralegal Students 3
PHIL 106 Logic 3
PHIL 264 Critical Reasoning and Argument 3
PHIL 324 Legal Reasoning (Also listed as LSLW 324) 3
STSP 234 Public Speaking 3
STSP 442 Argumentation and Debate 3

Background Courses:

ACCT 200 Accounting for Non-business Majors 3
OR
ACCT 201 Fundamentals of Accounting I 3
BSED 101 Contemporary Business 3
OR
ECON 101 Principles of Economics: Macro 3
HIST 117 History of the United States to 1876 3
OR
HIST 118 History of the United States since 1876 3
LSLW 398 Pre-Law Seminar and Internship** 3
OR
LSLW 400 Selected Topics In Law 3
PHIL 206 Philosophical Issues in Law and Justice 3
OR
PHIL 316 Philosophy of Law 3
POLS 101 Institutions of American Government and Politics 3
OR
POLS 322 American Constitutional Law: The Federal System 3

Total Semester Hours For The Program 21

*MATH 270 Statistics for Business may be substituted.

**LSLW 399 Cooperative Education: Pre-Law Studies may be substituted.

Students may also substitute up to 2 courses from the appropriate list obtained from the Department.

Courses of Instruction

LSLW 195
REASONING AND PROBLEM ANALYSIS FOR PRE-LAW AND PARALEGAL STUDENTS 3.0
Mathematical problem analysis, reasoning and proof applicable and transferable to law school study, including analysis of legal decision making. This course is cross-listed with MATH 195.
Prerequisite: Working knowledge of high school algebra and geometry.

LSLW 200
INTRODUCTION TO LAW AND LEGAL PROFESSIONS 3.0
An introduction to the meaning and function of law, the powers of the courts, and the jurisdiction of the courts. An exploration of traditional and evolving areas of law. A survey of the different professions and career options within the legal field. An assessment of the roles and importance of law in the lives of students and the public. Meets the General Education Requirement - Electives, Personal/Professional Issues.

LSLW 208
LEGAL PROCESS AND PROCEDURE 3.0
The course will acquaint students with principles of legal reasoning and argument in the Anglo-American common law tradition. The goal of the course is to provide students in the pre-law minor with the theoretical foundations to develop an understanding of the American legal system. The course will employ statutory and common law problems from both state and federal court systems and readings from the body of work of prominent American legal theorists.

LSLW 324
LEGAL REASONING 3.0
The goal of this course is to provide students in the pre-law minor with the theoretical foundations to develop a model and a method of addressing legal problems. The course will acquaint students with principles of legal reasoning and argument in the Anglo-American common law tradition and a model of legal reasoning and a methodology for resolving legal problems as developed within evolving social and philosophical notions of justice and fairness. Also listed as PHIL 324.
Prerequisites: LSLW 200, PHIL 264.

LSLW 388
SIMULATED LEGAL PROCEEDINGS 3.0
This course develops an understanding of the various processes utilized to resolve disputes in our society. Students will study the judicial system, learning about the law and the legal system through simulations known as mock trials.
Prerequisite: LSLW 200 or 208.

LSLW 391
WOMEN AND THE LAW 3.0
This course is designed to help students to understand and evaluate the changing patterns of gender-based laws in the United States in terms of the preferences they reflect and the rationales used to justify them. Emphasis will be placed upon issues which impact upon women's rights, Supreme Court cases which impact upon the roles and rights of women, and legislation.

LSLW 395
COMPLEMENTARY FORMS OF DISPUTE RESOLUTION: NEGOTIATION, MEDIATION AND ARBITRATION 3.0
An in-depth study of dispute resolution. Students will receive training in forms of dispute resolution, such as mediation, negotiation and arbitration. They will also study other forms of dispute resolution, as well as the growth and development of this area. Complementary forms will be compared and contrasted with the traditional judicial system.

LSLW 398
PRE-LAW SEMINAR AND INTERNSHIP 3.0
This course is designed to provide pre-law students who have acquired basic legal skills through introductory courses with the opportunity to utilize those skills and further explore the field of law by working in a lawyer's office or other similar advocacy situation.
Prerequisites: LSLW 200 or 208 and LSPR 230, open only to juniors and seniors..

LSLW 399
COOPERATIVE EDUCATION: PRE-LAW STUDIES 4.0-8.0
This course is designed to provide pre-law students who have acquired basic legal skills through introductory courses, with the opportunity to utilize those skills and further explore the field of law by working in a lawyer's office or other similar advocacy situation, as well as earn a salary.
Prerequisites: LSLW 200 or 208 and LSPR 230, open only to juniors and seniors.

LSLW 400
SELECTED TOPICS IN LAW 3.0
Exploration of a timely and significant area of law. The specific topic will be announced each time that the course is offered.

LSPA 105
PRACTICAL SPANISH FOR LEGAL PERSONNEL 3.0
Course designed to provide personnel dealing with Hispanics in legally-related situations with a basic knowledge of the Spanish language as it relates to the performance of their jobs in assisting Hispanics whose problems vary from tenancy and divorce to welfare, social security, immigration, and the like. Also listed under Spanish and Italian as SPAN 105.

LSPA 290
LANGUAGE OF THE LAW 3.0
This course introduces the student to the characteristic properties of legal English-both its linguistic structures and its social and psychological functions. The ultimate objective is to show that, depending on how it is used, legal language can obfuscate or clarify, persuade or fail to persuade, hinder or facilitate communication. Also listed under Linguistics as LNGN 290.

LSPA 399
SELECTED TOPICS IN LEGAL INTERPRETATION AND TRANSLATION 3.0
Exploration of timely and significant areas in legal interpretation and translation. Topics will be announced each time that the course is given. The course format is language specific, but the language may vary with each offering.
Prerequisite: Fluency in a language combination (e.g., Spanish/English or American sign language/English) will be specified each time the course is given; permission of department.

LSPR 220
INTRODUCTION TO PARALEGALISM 3.0
An introduction to certain basic areas of the law, to the legal process, and to the legal system, particularly as it operates in the state of New Jersey. The roles of the lawyer and the paralegal within the legal system. Familiarization with ethical considerations and specific paralegal skills in the areas of interviewing, investigation, and advocacy.

LSPR 221
CIVIL LITIGATION 3.0
The terminology of civil law. Substantive and procedural principles relating to all stages of a civil law suit from commencement to judgment particularly as applied to New Jersey civil practice rules. Drafting of pleadings, motions, and other documents in a civil law suit. Trial and appellate procedures.
Prerequisite or corequisite: LSPR 220.

LSPR 230
FUNDAMENTALS OF LEGAL RESEARCH 3.0
Fundamental principles and methods of legal research. The use of a law library, case law, statutory law, and other sources. The application of the tools of legal research to case analysis, digesting legal opinions, and writing a law office memorandum. Not open to Freshmen.
Prerequisite: LSPR 220 is recommended.

LSPR 301
DOMESTIC RELATIONS LAW 3.0
Basic concepts and scope of domestic relations law and family law practice. Familiarization with forms and procedures to train the legal assistant in this area. Ante nuptial agreements, formal ties of marriage, separation agreements, divorce.
Prerequisite: LSPR 220, 221, 230.

LSPR 302
REAL ESTATE LAW 3.0
Principles of real estate law and transactions to train the legal assistant in this area of practice. Conveyances of real property from the standpoint of seller and purchase. Landlord-tenant relations.
Prerequisites: LSPR 220.

LSPR 303
WILLS, TRUSTS AND PROBATE LAW 3.0
Basic concepts, practice, and procedure in wills, probate, and trusts, will drafting, estate planning, probate procedures, and estate administration. Forms and questionnaires utilized by paralegals in these areas.
Prerequisites: LSPR 220, 221.

LSPR 304
CORPORATIONS AND PARTNERSHIPS 3.0
Legal characteristics and tax aspects related to sole proprietorship, partnership, limited partnership, and corporation. Formation, operation, and dissolution of the corporate entity. Drafting of legal forms utilized by paralegals in these areas.
Prerequisites: LSPR 220, 221, 230 and either LSPR 306 or BSLW 261.

LSPR 305
PERSONAL INJURY LAW 3.0
Legal concepts and terminology of personal injury law, both substantive and procedural. Drafting of pleadings and other documents utilized by paralegals in personal injury practice, negligence, medical malpractice, products liability.
Prerequisites: LSPR 220, 221, 230.

LSPR 306
CONTRACT LAW FOR PARALEGALS 3.0
This course provides students with the theoretical foundations and practical applications of contract law in the common law tradition as modified by the Uniform Commercial Code. Students will also become acquainted with current developments in computer applications in the drafting of contracts. Paralegal minor.
Prerequisites: LSPR 220.

LSPR 307
IMMIGRATION LAW 3.0
Basic overview of immigration and nationality act, as well as historical and sociological perspective of U.S. Immigration. Practice and procedure of immigration law as pertains to both administrative agency processing and consular processing. Visa applications, naturalization, citizenship, deportation, exclusion, asylum and refugee practice.
Prerequisites: LSPR 220.

LSPR 310
FUNDAMENTALS OF PATENT, TRADEMARK AND COPYRIGHT LAW 3.0
Substantive and procedural legal foundation in these areas. Application and registration procedures. Standards of patentability. Trademark registration. Subject matter of copyrights.

LSPR 311
PATENT, TRADEMARK AND COPYRIGHT LAW: PRACTICE AND PROCEDURE 3.0
Substantive and procedural principles in these areas, including practice and procedure before the U.S. Patent and Trademark Office and the U.S. Copyright Office.
Prerequisite: LSPR 310.

LSPR 316
SKILLS FOR BILINGUAL LEGAL PERSONNEL 3.0
Translating, interpreting and cultural fluency as applied to the legal field and in particular to the role of bilingual paralegals.
Prerequisite: Fluency in Spanish required.

LSPR 322
ADVANCED CIVIL LITIGATION 3.0
This course provides students with the theoretical foundations and practical applications of civil litigation in both the state and federal court systems, at all levels from client intake through judgment. Students will also become acquainted with current developments in computer hardware and software applications in the management of complex multi-party civil litigation.
Prerequisite: LSPR 221.

LSPR 325
PARALEGAL SEMINAR AND INTERNSHIP 3.0
Field work experience of 90 hours in a private sector law office, corporation, bank, or public sector agency. Also includes classroom seminar.
Prerequisites: LSPR 220, 221, 230, departmental approval.
Prerequisites or Corequisites: 4 legal specialty or law-related courses selected from courses approved within the Paralegal Studies Minor or from the approved departmental list.

LSPR 326
COOPERATIVE EDUCATION: PARALEGAL STUDIES 4.0-8.0
Academic study integrated with supervised paid employment situation outside the formal classroom environment. Part-time (20 hours per week) or full-time (40 hours per week).
Prerequisites: LSPR 220, 221, 230, departmental approval.
Prerequisites or corequisites: 4 legal specialty or law-related courses selected from courses approved within the Paralegal Studies Minor or from the approved departmental list.

LSPR 331
ADVANCED LEGAL RESEARCH 3.0
Students refine and perfect principles and methods of legal research, how to use a law library, and to work with statutory, case law and other sources. Students apply to practical legal problems the research techniques learned in Fundamentals of Legal Research.
Prerequisite: LSPR 230.

LSPR 338
LEGAL WRITING 3.0
This course is intended to apply legal method and analysis to written instruments. Students will learn to identify the theory, and solve the problem through a finished written work product. The general goal will be to instruct students in how to apply the legal theory and techniques learned in the prerequisite courses to kinds of writing assignments encountered in the legal field.
Prerequisites: LSPR 220 or LSLW 200 and LSPR 230.

LSPR 340
COMPUTER FUNDAMENTALS FOR PARALEGALS 3.0
This course provides an introduction to the structure of a computer, the function of programming language, computer application in the legal environment, available legal software and legal applications data bases.
Prerequisites: LSPR 220, 221, 230.

LSPR 341
ADVANCED COMPUTER APPLICATIONS IN THE LAW OFFICE ENVIRONMENT 3.0
The course is designed to explore the application and operation of computer programs designed specifically to assist in the practice of law or the management of a law office and to provide students with a conceptual basis for evaluation, application, and operation of other legal application programs which may become available to students. The course builds upon the background and knowledge acquired in the prerequisite Computer Fundamentals for Paralegals.
Prerequisites: LSPR 220, 230, 340.

LSPR 350
CRIMINAL PROCEDURE: LAWS, RULES AND PRACTICE 3.0
Legal concepts and their application to criminal procedure. Study of procedural laws and rules governing criminal practice and how they impact on substantive criminal law. Will include the role of the paralegal in criminal practice from both the perspective of the prosecution and the defense.
Prerequisite: LSPR 220.

LSPR 399
SELECTED TOPICS IN PARALEGAL STUDIES 3.0
Exploration of a significant area of paralegal studies, including administrative law, alternate dispute resolution, as well as new and evolving legal areas. The specific topic will be announced each time the course is offered.
Prerequisites: LSPR 220, 221, 230.

LINGUISTICS

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Alice F. Freed

Human language permeates nearly every facet of our existence and is one of the most important of human activities. The courses in linguistics reflect this fact and explore the many aspects of language: its structure, its history, its relationship to society and to psychological processes, its role in shaping our attitudes, its use in literature, and many other topics.

The department offers general courses for non-majors and specialized courses for majors, as well as a minor program and a variety of courses for students in other fields. In addition, the department offers a choice of a liberal arts major in Linguistics, a Linguistics major with certification in Teaching English as a Second Language (TESL) as a first teaching field, and certification in TESL as a second teaching field. TESL certification is required for teaching ESL in grades K-12 in public schools in the state of New Jersey.

Linguistics majors receive a Bachelor of Arts degree.

Linguistics Major

Required Courses for All Majors: (21 Semester Hours)

		Semester Hours
LNGN	210 Introduction to General Linguistics	3
LNGN	220 Structure of American English	3
LNGN	230 Language in Society	3
LNGN	245 Language and Culture	3
LNGN	300 Syntax and Semantics I	3
LNGN	301 Syntax and Semantics II	3
LNGN	330 Phonetics and Phonology	3

Liberal Arts Major:

Electives: (15 Semester Hours)

LNGN	203 Anthropological Linguistics	3
LNGN	255 Women, Men and Language	3
LNGN	260 Dialectology	3
LNGN	270 History of Linguistics	3
LNGN	280 Bilingualism	3
LNGN	284 History of the English Language	3
LNGN	325 Principles of Second Language Learning	3
LNGN	340 Linguistics and Literary Analysis	3
LNGN	370 Comparative and Historical Linguistics	3
LNGN	410 Linguistics and Philosophy	3
LNGN	420 Mathematical Linguistics	3
LNGN	430 Field Methods	3
LNGN	450 Selected Topics in Linguistics	3
LNGN	451 Selected Topics in Linguistics	3
LNGN	478 Independent Study in Linguistics	3
LNGN	480 Linguistics in Education and Society	3
PSYC	250 Psycholinguistics	3

Total 36

Recommended Courses: A non-Indo-European Language (6-12 Semester Hours)

CHIN	101 Beginning Chinese I	3
CHIN	112 Beginning Chinese II	3
CHIN	121 Intermediate Chinese I	3
CHIN	132 Intermediate Chinese II	3

TESL Certification Majors:

Electives: (15 Semester Hours)

		Semester Hours
LNGN	260 Dialectology	3
LNGN	270 History of Linguistics	3
LNGN	280 Bilingualism	3
LNGN	284 History of the English Language	3
LNGN	325 Principles of Second Language Learning (recommended)	3
LNGN	384 The Grammars of English	3
LNGN	480 Linguistics in Education and Society	3
PSYC	348 Psycholinguistics (recommended)	3
LNGN	450 Selected Topics in Linguistics (with approval of advisor)	3
LNGN	478 Independent Study in Linguistics (with approval of advisor)	3
LNGN	479 Independent Study in Linguistics (with approval of advisor)	3

Students seeking certification must also fulfill requirements for the Teacher Education Program within the School of Professional Studies.

Linguistics Minor

Required Course

		Semester Hours
LNGN	210 Introduction to General Linguistics	3

Electives

Select 15 semester hours from the appropriate list available from the department 15

Certification Program in Teaching English as a Second Language (TESL) as a Second Teaching Field

Linguistics and ESL Methodology:

Six Required Courses: (18 Semester Hours)

		Semester Hours
LNGN	210 Introduction to General Linguistics	3
LNGN	220 Structure of American English	3
LNGN	245 Language and Culture	3
LNGN	325 Principles of Second Language Learning	3
LNGN	403 Methods and Materials of TESL	3
LNGN	405 Field Experience in TESL	3

Four Recommended Courses: (12 Semester Hours)

LNGN	230 Language in Society	3
LNGN	260 Dialectology	3
LNGN	280 Bilingualism	3
LNGN	284 History of the English Language	3
PSYC	348 Psycholinguistics	3
EDFD	530 Foundations of Bilingual-Bicultural Education	3

English as a Second Language (ESL)

The Linguistics Department offers a full sequence of courses in English as a Second Language for students with limited English proficiency. Class placement is determined by examination.

		Semester Hours
ESOL	051 Intensive ESL I	6
ESOL	152 Intensive ESL II	6
ESOL	153 Intensive ESL III	6
ESOL	154 Intensive ESL IV Advanced Composition	6
ESOL	310 ESL - Advanced Oral Skills	3
ESOL	311 ESL - Advanced Listening Comprehension	3

Courses of Instruction

CHIN 101
BEGINNING CHINESE I 3.0
The first semester of an introduction to the Chinese language, focusing mainly on speaking and comprehension, and secondary emphasis on reading and writing. Meets the General Education Requirement - Foreign Language.

CHIN 112
BEGINNING CHINESE II 3.0
The second semester of an introduction to the Chinese language, focusing mainly on speaking and comprehension, with secondary emphasis on reading and writing. Meets the General Education Requirement - Foreign Language.
Prerequisite: CHIN 101.

CHIN 121
INTERMEDIATE CHINESE I 3.0
This is the first semester of a second year course in the Chinese language (Mandarin). The course will continue to build the skills in spoken Chinese developed in beginning Chinese I and II. However, the focus of this course will be reading and writing. The reading and writing components will be gradually increased to at least fifty per cent of the course content. Meets the General Education Requirement - Foreign Language.
Prerequisites: CHIN 101 and 112 or equivalent.

CHIN 132
INTERMEDIATE CHINESE II 3.0
This course will complete the intermediate Chinese sequence. The increased emphasis on reading and writing, begun in Intermediate Chinese I, will continue. Reading and writing skills, along with vocabulary building, will be the focus of the course, although speaking will continue to be important. Meets the General Education Requirement - Foreign Language.
Prerequisite: CHIN 101, 112, and 121 or equivalent.

ESOL 051
INTENSIVE ESL I 6.0
This course is the first in a sequence of four courses for students whose first language is not English. The course aims to develop all four language skills: listening, speaking, reading and writing emphasizing listening comprehension and speaking. The class will meet twice a week for two and a half hours each session. Credits not applicable toward graduation.
Prerequisite: Placement examination.

ESOL 152
INTENSIVE ESL II 6.0
The course is the second in a sequence of four courses for students whose first language is not English. The course aims to continue the development of all four skills: listening, speaking, reading, writing, with special emphasis on reading and vocabulary development. The class will meet twice a week for two and one half hours.
Prerequisite: ESOL 051 or placement examination.

ESOL 153
INTENSIVE ESL III 6.0
This is the third in a sequence of four courses for students whose first language is not English. The course is a continuation of ESL II with increased emphasis on reading and writing. The course meets twice a week for two and a half hours.
Prerequisite: ESOL 152 or placement examination.

ESOL 154
INTENSIVE ESL IV ADVANCED COMPOSITION 6.0
This is the fourth in a sequence of four courses for students whose first language is not English. The course continues working on speaking, listening and reading skills but puts primary emphasis on formal writing. Students will write compositions, essays, etc. focusing on the techniques necessary for academic writing. The class will meet twice a week for two and a half hours.
Prerequisite: ESOL 153 or placement examination.

ESOL 310
ESL - ADVANCED ORAL SKILLS 3.0
The course is designed to improve the oral language skills of non-native English speakers whose background has emphasized the skills of reading and writing. The course is intended to help develop oral proficiency in students whose oral comprehension and ability to make themselves understood is weak. The course will concentrate on the skill of speaking.
Prerequisite: ESOL 153 or equivalent.

ESOL 311
ESL - ADVANCED LISTENING COMPREHENSION 3.0
This course is designed to improve the comprehension of spoken English by the non-native speaker whose writing and speaking is acceptable but who has difficulty following classroom lectures and conversations among English speakers.
Prerequisite: ESOL 153 or equivalent.

LNGN 203
ANTHROPOLOGICAL LINGUISTICS 3.0
Different linguistic systems will be analyzed through the use of informants (speakers) of non-Indo-European languages, and through published data from a variety of Amerindian and African languages. The relationship of linguistic structure and theory to cultural systems will be emphasized in individual student field experience and in readings and lectures. This course is cross-listed with ANTH 203.

LNGN 210
INTRODUCTION TO GENERAL LINGUISTICS 3.0
The nature and structure of language; the basic techniques for analyzing linguistic structures; phonological, morphological, syntactic and semantic structure of languages,language and dialects; language change; the comparative method in linguistics; human and animal communication; differences between first and second language learning. Meets the General Education Requirement - Social Science, Survey Course.

LNGN 220
STRUCTURE OF AMERICAN ENGLISH 3.0
The phonology, morphology, syntax of American English, geographical and social dialects; traditional, structural and transformational approaches to grammar. Meets the General Education Requirement - Foreign Language.

LNGN 230
LANGUAGE IN SOCIETY 3.0
Correlations between language varieties, their functions in particular settings, and the characteristics of their speakers. Black English. The role of second languages within a society: Pidgin, Creole, Lingua Franca, Diglossia, etc. Meets the General Education Requirement - Social Science, Topic Course.

LNGN 245
LANGUAGE AND CULTURE 3.0
Language in its cultural context. Relationship of linguistic to non-linguistic variables: ethnosemantics, linguistic relativity principle, componential analysis, glottochronology. Meets the General Education Requirement - Social Science, Topic Course.

LNGN 250
LANGUAGE OF PROPAGANDA 3.0
This course is a multidisciplinary approach to the study of the use of language to manipulate and influence opinions via advertising, innuendo, jargon, emotive language, etc. Meets the General Education Requirement - Contemporary Issues.

LNGN 255
WOMEN, MEN AND LANGUAGE 3.0
A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data. Meets the General Education Requirement - Social Science, Topic Course. Meets the Multicultural Awareness Requirement.

LNGN 260
DIALECTOLOGY 3.0
Principles of dialect study; application to American dialects. The origin and development of American dialects in historical, literary, regional, social and urban perspectives.

LNGN 270
HISTORY OF LINGUISTICS 3.0
Linguistics from the ancient Sanskrit grammarians to the present. Present-day 'schools': structuralism, glossematics, Prague school, London school, tagmemics, stratificational grammar, transformational grammar.

LNGN 280
BILINGUALISM 3.0
Compound and coordinate bilingualism; attitudes, motivation, etc.; functions of languages in multilingual settings; problems of newly-independent, multilingual nations in establishing national and standardized languages; analysis of bilingual speech; problems of educating minority groups in this country whose native language is not English.

LNGN 284
HISTORY OF THE ENGLISH LANGUAGE 3.0
English from its Indo-European origins up to and including the eighteenth-century grammarians. The Germanic strains; old, middle and modern English.

LNGN 290
LANGUAGE OF THE LAW 3.0
The characteristic properties of legal English; its linguistic structures and its social and psychological functions. Practice in analyzing and rewriting legal texts into plain English.

LNGN 300
SYNTAX AND SEMANTICS I 3.0
The first of a two-semester sequence dealing with the most important modern approaches to the description of sentence structure and meaning in language. Emphasis in this first course will be on structural grammar and the early development of transformational-generative grammar. Data will be taken from a number of different languages.
Prerequisites: LNGN 210 and instructor's permission. Required of majors.

LNGN 301
SYNTAX AND SEMANTICS II 3.0
The second course of a two-semester sequence dealing with the most important modern approaches to the description of sentence structure and meaning in language. Emphasis in this course will be on the later development of transformational grammar and its offshoots. Data will be taken from a number of different languages.
Prerequisites: LNGN 300 and instructor's permission. Required of majors.

LNGN 325
PRINCIPLES OF SECOND LANGUAGE LEARNING 3.0
Theories of second language acquisition; error analysis; individual learner differences; the roles of input, interaction, and formal instruction in language acquisition.

LNGN 330
PHONETICS AND PHONOLOGY 3.0
How sounds are produced in various languages, their acoustic properties, classification and description. The sound systems of a variety of languages. Workbook problems based on many languages.

LNGN 370
COMPARATIVE AND HISTORICAL LINGUISTICS 3.0
Similarities and differences among languages and language families at one point in time and as these develop in time; reconstructing the common ancestor of related languages and determining general laws of linguistic change.

LNGN 384
THE GRAMMARS OF ENGLISH 3.0
A critical overview of traditional, structural, and transformational-generative approaches to the problems of analyzing the grammar of the English language; practical applications for teaching English and for understanding grammatical principles as means of more effective writing and literary analysis. This course is cross-listed with ENGL 384.

LNGN 403
METHODS AND MATERIAL OF TESL 3.0
The theory and practice of ESL instruction covering the major methodologies, planning lessons, testing language skills, selecting and developing materials and related topics.

LNGN 405
FIELD EXPERIENCE IN TEACHING ENGLISH AS A SECOND LANGUAGE 3.0
Opportunity to teach English as a second language will be arranged for each student in the program.

LNGN 430
FIELD METHODS 3.0
Collecting linguistic data from an informant; human factors in field work; qualifications of the informant; elicitation techniques.

LNGN 450
SELECTED TOPICS IN LINGUISTICS 3.0
Study of special problems and topics in linguistics. Topics announced each semester.
Prerequisites: LNGN 210 or equivalent and instructor's permission.

LNGN 451
SELECTED TOPICS IN LINGUISTICS 3.0
Study of special problems and topics in linguistics. Topics announced each semester.
Prerequisites: LNGN 210 or equivalent and instructor's permission.

LNGN 478
INDEPENDENT STUDY 3.0
This course is designed (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department; (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course; or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.
Prerequisites: LNGN 210 and instructor's permission.

LNGN 479
INDEPENDENT STUDY 3.0
This course is designed (1) to allow students to explore areas of linguistics that are not covered in the normal course offerings of the department; (2) to permit an in-depth analysis of a given subject beyond the scope of a regular semester course; or (3) to provide advanced students with the possibility of research in areas of linguistics that are of special interest to them.
Prerequisites: LNGN 210 and instructor's permission.

LNGN 480
LINGUISTICS IN EDUCATION AND SOCIETY 3.0
The course is intended to acquaint students involved in language education of any sort with the applications and implications of linguistics for eduction and for understanding the functioning of language in society.

MANAGEMENT

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Byung Min

Students whose concentration is in management learn about the actual operation of business organization and how to be a business leader. Managers must develop many kinds of skills. For example, they should have an understanding of human behavior in organizations, the ways in which computers can aid in decision-making, the relationship of business firms to government and society, and how international firms operate.

The department offers a Bachelor of Science degree in business administration with a concentration in management or quantitative methods.

Business Administration Major

Required Courses

			Semester Hours
ACCT	201	Fundamentals of Accounting I	3
ACCT	202	Fundamentals of Accounting II	3
BSLW	261	Legal Environment of Business I	3
FINQ	270	Statistics for Business	4
MGMT	311	Management Process and Organization Behavior	4
FINC	321	Fundamentals of Finance	3
MKTG	340	Introduction to Marketing	3
FINQ	372	Management Science	4
FINQ	463	Administrative Research Methodology and Analysis	3
MGMT	439	Business Policy	3

Collateral Courses

MATH	113	Mathematics for Business I	3
MATH	114	Mathematics for Business II	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

Two courses from two of the following departments:
Anthropology, Psychology, Sociology 6

Concentrations Within the Major

Management

The concentration in management provides professional education in organization theory and behavior, the management of human resources, operations, and production and information systems. It also supplies a good background in systems design and analysis as well as in decision-making in an environment of risk and uncertainty.

Required Courses

			Semester Hours
MGMT	316	Human Resources Management	3

Management Electives

Select 9 semester hours from the appropriate list to be obtained from the department 9

Business Administration Electives

Select 12 semester hours from the appropriate list to be obtained from the department 12

Quantitative Methods Concentration

The concentration in quantitative methods provides training in quantitative analytical methods for solving operational and research problems in industry. These methods, together with computer applications, are handled in depth to permit a student to become comfortable using statistics.

Required Courses

Select Four

FINQ	375	Operations Analysis	3
FINQ	386	Logistics Systems	3
FINQ	474	Business Forecasting	3
FINQ	475	Quantitative Decision Making for Business	3

Business Administration Electives

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

FINQ 270
STATISTICS FOR BUSINESS 4.0
The comprehension and the application of modern statistical methods. Topics covered include: Probability Theory, Descriptive Statistics, Interval Estimation, Sampling Theory, Parametric and Non-parametric Tests of Significance, Analysis of Variance, Correlation and Regression Analysis and Time Series Analysis.
Prerequisites: MATH 113, 114

FINQ 274
BUSINESS COMPUTER PROGRAMMING 3.0
Problem-oriented programming languages are studied. Business applications will be programmed in FORTRAN and COBOL. Such programs will be debugged via the computer.

FINQ 350
QUALITY IMPROVEMENT 3.0
A comprehensive approach to quality in organizations is essential to maintaining competitive position. This course explores current thinking as well as the tools and techniques necessary to implement quality programs.
Prerequisites: FINQ 270.

FINQ 372
MANAGEMENT SCIENCE 4.0
Applied mathematical techniques used to solve a wide variety of problems with special attention to issues, management and production control. Topics include linear programming, transportation and assignment algorithms, pert, inventory models, decision theory, Markov models, queuing theory and simulation.
Prerequisites: MGMT 310; FINQ 270.

FINQ 375
OPERATIONS ANALYSIS 3.0
Mathematical and statistical methods in the analysis of specific business systems and industrial production activities, inventory control, production planning and scheduling, and capital management. Computers are used to solve problems involving complex systems.
Prerequisite: FINQ 372.

FINQ 386
LOGISTIC SYSTEMS 3.0
The logistics sub-system in the economy and the firm; definitive methods of attacking logistics problems. Relationships among logistics components (transportation, materials handling, warehousing, packaging, inventory holding and location theory), and the inter-face of logistics activities and other functional areas of business.
Prerequisites: MGMT 310, MKTG 340.

FINQ 463
ADMINISTRATIVE RESEARCH METHODOLOGY AND ANALYSIS 3.0
Scientific investigations into business problems, evaluation of data sources, research methods, statistical techniques, analysis and interpretation of data. Individual and team investigation and reporting on current problems.
Prerequisite: FINQ 270, senior standing.

FINQ 474
BUSINESS FORECASTING 3.0
Mathematical and econometric models for short- and long-range business forecasting. Models are evaluated for accuracy and relevance. The computer is used as a tool in developing an automated system.
Prerequisite: FINQ 270.

FINQ 475
QUANTITATIVE DECISION-MAKING FOR BUSINESS 3.0
Decision-making under conditions of certainty, risk, uncertainty, conflict and competition. The theoretical basis for management decisions and elements of the process. The theory of games and the use of simulation as applied to typical managerial problems.
Prerequisites: MGMT 310, MKTG 340, FINQ 270.

FINQ 491
CO-OP EDUCATION IN QUANTITATIVE METHODS 3.0 - 8.0
This course is aimed at synthesizing theory and practice. Students will be provided an opportunity to have an experience to one or two off-campus on-job trainings in various aspects of quantitative methods of one or more businesses. Full-time students may alternate between college and business where as part-time students may take co-op in parallel with college.
Prerequisites: Senior/junior standing, FINQ 270 and at least one more course in Quantitative Methods

MGMT 273
INTRODUCTION TO COMPUTERS IN BUSINESS 3.0
An introduction to the use of information systems in business. Topics that will be covered include computer hardware and software, systems analysis, management information systems, data communications and application development. Students will be introduced to business software packages which will include database management, spreadsheeting and business word processing. Also listed as CMPT 272 and BSED 273.

MGMT 311
MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOR 4.0
To provide undergraduate students a review of classical and modern approaches to the managerial process as it relates to the manager's functions of planning, organizing, staffing, leading and controlling. These reviews will be tied to the open-system model and the contingency approach as an overall framework for understanding the management of organizations.
Prerequisites: ANTH 100, PSYC 101, SOCI 100, majors only.

MGMT 316
HUMAN RESOURCE MANAGEMENT 3.0
Motivating managerial and non-managerial employees; effective use of human resources in the organization. The personnel function, techniques of job analysis, description and evaluation, and overall organizational development particularly with minority group members and female employees.
Prerequisite: MGMT 311, junior standing.

MGMT 317
MOTIVATION AND LEADERSHIP 3.0
In-depth analysis of the human element; analytical models to assist in the solution of leadership problems in an organizational context. Techniques of analysis and the psychology of self-esteem. Motivational problems facing first-line, middle, and top level managers in professional and nonprofessional work activities. The development of skills for practical application case studies.
Prerequisite: MGMT 311.

MGMT 327
TRAINING, DEVELOPMENT, AND CAREER PLANNING 3.0
Theory and design of training, development and career planning programs. Assessment of training needs, training and development methods and procedures for evaluation training are considered. Some emphasis is placed on the development of managerial skills through student workshops.
Prerequisite: MGMT 311.

MGMT 335
SMALL BUSINESS MANAGEMENT 3.0
The problems and opportunities of starting and operating a small business. Capital accumulation, adapting technologies to specialized needs, assessing local market opportunities, governmental aids, establishing working relationships with large organizations and problems of growth.
Prerequisites: FINC 321, MGMT 311, MKTG 340.

MGMT 336
INTERNATIONAL BUSINESS MANAGEMENT 3.0
Managing organizations in foreign markets is much more complex than managing them in the domestic market. This course emphasizes international/cross-cultural management, including the impact of the foreign country's culture, legal system, government, economics, technology, and political system on entry strategies, organizational structures, leadership styles, motivation techniques, human resources management, and controls.
Prerequisite: MGMT 311.

MGMT 363
BUSINESS AND SOCIETY 3.0
Business as an institution in our pluralistic society; its relationship with other societal elements such as government, academia, labor and the consumer. American business past, present and future; strengths, weaknesses and overall contribution to society; ecology, minority groups and the quantity and quality of economic growth. Meets the General Education Requirement - Contemporary Issues.

MGMT 371
MANAGEMENT INFORMATION SYSTEMS 3.0
Total information systems from the perspective of organizations. Information from the management point of view; its needs, cost and value. Definition and analysis in the solution of systems problems. The computer as a tool of processing accounting, marketing and financial information for decision-making and policy-setting. (Field work).
Prerequisites: ACCT 202, FINQ 270, MGMT 311, instructor's permission, majors only.

MGMT 392
BUSINESS INTERNSHIP 1.0-3.0
Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses, in a seminar, such topics as job analysis, description, study guides, training techniques and problems.
Prerequisite: Instructor's permission.

MGMT 414
MANAGEMENT THEORIES: BEHAVIORAL APPROACHES 3.0
Advanced analysis of the most recent developments in the behavioral sciences as a basis for practical applications in the management of organizations. Special emphasis on techniques drawn from several behavioral models including approaches such as transactional analysis and behavior modification.
Prerequisite: MGMT 311.

MGMT 433
ENTREPRENEURSHIP AND INNOVATION 3.0
Attitudes and perspectives for effecting meaningful and profitable change. Concepts of creativity, optimum use of resources, and the impact of technological change. Anticipating needs and wants of all groups influenced by the enterprise; examples of successful entrepreneurship, role-playing and situational exercises.
Prerequisite: MGMT 311, FINC 321, MKTG 340.

MGMT 439
BUSINESS POLICY 3.0
Establishing and implementing corporate goals. The firm as a collection of internal and external objectives. Information from functional areas analyzed along the lines of departmental activities. Decision-making under conditions of risk and uncertainty. Planning and strategy in a changing environment. Reconciling departmental goals and company objectives through the systems approach. The effects of corporate decisions on public policy. Case studies and simulation games.
Prerequisites: Senior standing; majors only.

MGMT 491
SMALL BUSINESS INSTITUTE 3.0
A field studies course providing management assistance to small businesses in the local community. Students work individually or in small groups under faculty supervision directly with a small business person who has requested their counseling services. Students gain experience in problem solving and applying marketing, accounting, finance and/or management concepts to actual business situations. The course is focused on the preparation and delivery of the students' counsulting report to the client at the end of the semester.
Prerequisites: MGMT 311, 340, FINC 321.

MGMT 492
SELECTED TOPICS IN MANAGEMENT 1.0-3.0
The content of this course varies with each offering. Its purpose is to provide for the comprehensive development and study of an advanced topic of current interest not covered indepth in the regular curriculum. Examples of topics covered in the past include: labor relations; women in management; and data base management systems.
Prerequisite: Prior approval of department chairperson.

MGMT 499
HONORS SEMINAR 3.0
Opportunity for a select number of students to study management issues in a small, intimate classroom environment. Students will be given a broad range of opportunities for exploration of the literature as well as of investigation of the problems selected out for detailed study.

MARKETING

SCHOOL OF BUSINESS ADMINISTRATION
Chairperson: Ralph DiPietro

Marketing as a discipline involves itself with analyzing consumer and industrial needs in constantly changing environment. Marketing managers then take this information and reflect it in an appropriate marketing strategy that is congruent with those needs.

The marketing concentration provides students with a knowledge of the theoretical and practical aspects of the subject. Courses in advertising, consumer behavior, sales promotion, and marketing research and strategies prepare students for entry level positions and for potential advancement in marketing and sales careers. Additional courses will expand student awareness of international opportunities, and a well chosen sequence of courses sharpens analytical, creative, and decision-making skills.

The department offers a Bachelor of Science degree in business administration with a marketing concentration.

Business Administration Major

Required Courses

			Semester Hours
ACCT	201	Fundamentals of Accounting I	3
ACCT	202	Fundamentals of Accounting II	3
BSLW	261	Legal Environment of Business I	3
FINQ	270	Statistics for Business	4
MGMT	311	Management Process and Organizational Behavior	4
FINC	321	Fundamentals of Finance	3
MKTG	340	Introduction to Marketing	3
FINQ	372	Management Science	4
MGMT	439	Business Policy	3
MKTG	442	Marketing Research	3

Collateral Courses

MATH	113	Mathematics for Business I	3
MATH	114	Mathematics for Business II	3
ECON	101	Principles of Economics: Macro	3
ECON	102	Principles of Economics: Micro	3

Two courses from two of the following departments:
Anthropology, Psychology, Sociology 6

Concentration Within the Major

Marketing

Required Courses

MKTG 341 Consumer Behavior
OR
MKTG 443 Industrial Marketing 3
MKTG 446 Marketing Strategy and Implementation 3

Marketing Electives

Select any 2 advanced marketing course from the appropriate list obtained from the department 6

Business Administration Electives

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

MKAD 392
BUSINESS INTERNSHIP-MARKETING 1.0-3.0
Full-time on-the-job experience in a business organization under college supervision. During this experience, the student investigates and discusses in a seminar such topics as job analysis, description, study guides, training techniques and problems.
Prerequisite: Permission of department chairperson.

MKAD 492
SELECTED TOPICS IN ADMINISTRATIVE SCIENCES 1.0-3.0
Professional inquiry into the study of a selected issue, problem or trend in accounting, finance, management and organizational behavior, marketing, quantitative analysis, and general business.
Prerequisite: Prior approval of department chairperson.

MKTG 340
INTRODUCTION TO MARKETING 3.0
The role of marketing; significance of marketing decisions to overall performance. Behavioral aspects of marketing, the impact of consumer behavior in purchase decisions, special problems of industrial marketing, the consumer movement and formal and informal societal constraints on marketing practices.

MKTG 341
CONSUMER BEHAVIOR 3.0
Industrial and consumer buying behavior; the user of consumer products. Behavioral science findings, marketing research techniques and consumer attitudes; socio-economic and demographic variables.
Prerequisite: MKTG 340.

MKTG 342
SALES CONCEPTS AND PRACTICES 3.0
An analysis of the complete personal selling function from the perspective of one organization selling to another. Topics dealing with both the actual mechanics of the selling process and the management of the process and its actors are included.
Prerequisite: MKTG 340.

MKTG 343
DIRECT MARKETING
Introduce students to the principles, practices, and environment of direct marketing. Development, implementation, strategies and data base management will be instructed through the use of readings, examples, cases, and a "hands on" approach to computer applications in the field.
Prerequisite: MKTG 340.

MKTG 344
ADVERTISING THEORY AND TECHNIQUES 3.0
An examination of the theoretical basis for advertising with linkage to the behavior of consumers. Planning and managing advertising campaigns, actual techniques used to develop advertising, and the role of advertising agencies are also dealt with.
Prerequisite: MKTG 340.

MKTG 347
EXPORT/IMPORT MARKETING PROCESS 3.0
The course will cover the following topics: export/import policies-national and international environment; government programs and incentives to promote exports; tariff systems; choosing export markets and analyzing exports and imports; developing an export program; setting up an export organization; export/import financing; export/import documentation; export pricing; packaging, shipping, traffic and insurance.
Prerequisite: MKTG 340

MKTG 349
INTERNATIONAL MARKETING 3.0
The importance of international marketing for the U.S. environmental conditions and controlling factors. Development of foreign markets and selection of appropriate organizational means. Introduction into the mechanics of import and export. Manufacture abroad. Multinational companies.
Prerequisite: MKTG 340.

MKTG 350
PHARMACEUTICAL AND HEALTH CARE MARKETING 3.0
To provide understanding of unique aspects of pharmaceutical and health care marketing by exploring the roles played by consumers, providers and various levels of governments and apply marketing theories and concepts to anticipate trends and develop appropriate market strategies.
Prerequisite: MKTG 340.

MKTG 399
BUSINESS WORK EXPERIENCE II 4.0-8.0
Business Work Experience II integrates classroom study with supervised work experience and intensifies the experience gained through participation in Introduction to Business Work Experience. This course will develop, through practical experience, the student's expertise in the major field of study by providing a bridge from the academic environment to the world of the entering professional.
Prerequisite: BEOS 230.

MKTG 411
ADVANCED TOPICS IN MARKETING RESEARCH 3.0
A continuation of marketing research with emphasis on advanced topics such as industrial marketing research, experimentation, multivariate statistical techniques such as multidimensional scaling, discriminant analysis automatic interaction detection, and conjoint analysis. Also included will be advanced techniques in sales and market forecasting.
Prerequisites: MKTG 442.

MKTG 442
MARKETING RESEARCH 3.0
A broad management perspective on market research methodology. A systems approach, collection and analysis of facts, opinions, forecasts, etc., for determining marketing strategies. Research techniques and designs, tabulation and report presentation.
Prerequisite: MKTG 340, FINQ 270.

MKTG 443
INDUSTRIAL MARKETING 3.0
A study of the various problems faced by organizations who market goods and services consumed by other organizations. A managerial focus based on an understanding of organizational buying activities is stressed.
Prerequisite: MKTG 340.

MKTG 446
MARKETING STRATEGY AND IMPLEMENTATION 3.0
Relationship of marketing to the activity of the firm from theoretical and practical perspectives. The variables of marketing decision-making; sophisticated techniques for problem-solving. Case studies help to develop an analytical posture in marketing planning. To be taken in senior year.
Prerequisite: MKTG 442.

MKTG 464
LEGAL PROBLEMS OF THE MARKETING PROCESS 3.0
The historic and social relationships of law and marketing. The legal framework including (1) the relationship of administrative agencies to enforcement of legislative policy, (2) governmental regulation of anti-competitive business behavior, (3) regulations protecting consumers and (4) regulations protecting the use of intellectual property. Legal problems of international marketing and distribution.
Prerequisites: BSLW 261, MKTG 340.

MKTG 490
MARKETING INTERNSHIP 3.0
An opportunity for students to assist in solving a particular marketing problem for a participating corporation. Examples include general market research, advertising effectiveness research, public relations and new product assessment.

MKTG 491
MARKETING CO-OP 1.0-8.
An opportunity for the student to work in a marketing environment for a semester. Interested students should contact the department of Cooperative Education. Note: Credit may or may not be given in the marketing area depending on the nature of the job and academic experience. Credits would then be free electives.
Prerequisite: MKTG 340.

MKTG 492
INDEPENDENT STUDY IN MARKETING 1.0-3.0
An opportunity for a student to study a topic not normally covered in existing course selections or to take a course normally given, but for some reason not available.

MKTG 493
SPECIAL TOPICS IN MARKETING 1.0-3.0
An examination of topics not covered in normal marketing course work. Course to be given on demand with topics varying according to student input. Course will normally be offered during an intersession.

MKTG 499
CURRENT TOPICS IN MARKETING 3.0
Honors seminar, current topics in marketing. Problems and opportunities in marketing management.
Prerequisites: MKTG 340.

MATHEMATICS AND COMPUTER SCIENCE

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Chairperson: Kenneth C. Wolff

Mathematics and computer science are essential areas of knowledge in the modern technological world. In order to equip students with proper skills, the department offers a major and a minor program in mathematics and a major and a minor program in computer science. Within the Mathematics major, students may elect to concentrate in Applied Mathematics. A concentration in Analysis and Theory is available in the Computer Science major. Both major programs lead to a Bachelor of Science degree. With the proper choice of elective courses, a student may prepare for graduate study or for work in a variety of fields such as computer science, statistics, actuarial science and management science. There are honors programs in mathematics and computer science for qualified students.

It is possible to pursue a dual major program, mathematics and computer science. This can be arranged with the advice of the chairperson. A student who is interested in advanced placement or who has questions about qualifications for placement in calculus or computer science should contact the chairperson for the proper information.

Mathematics Major

Required Courses

MATH 122 Calculus I 4
MATH 221 Calculus II 4
MATH 222 Calculus III 4
MATH 335 Elements of Linear Algebra 4
MATH 340 Probability 3

Collateral Courses

CMPT 183 Foundations of Computer Science I 3
PHYS 191, 192 General Physics I, II 8

Mathematics Major Electives

Select 18 semester hours from the appropriate list to be obtained from the department 18

Note: Mathematics majors who do not concentrate in Mathematics Education or Applied Mathematics will be required to take MATH 431 Foundations of Modern Algebra or MATH 425 Advanced Calculus I.

Mathematics Minor

Students may earn a minor in the field of mathematics by completing an approved 19 semester hour program in mathematics which includes MATH 122, 221, 222, 335 and one other approved 300 or 400 math major elective course. At least 9 semester hours must be taken at Montclair State College.

Applied Mathematics Concentration

The department offers two tracks within Applied Mathematics Concentration: one in Discrete Applied Math and Operation Research, the other in Statistics. To qualify for this concentration students must complete the Required Courses for the Mathematics Major as well as:

CMPT 183 Foundations of Computer Science I 3
CMPT 184 Foundations of Computer Science II 3
MATH 469 Introduction to Mathematical Modeling 3

Students then specialize by taking three courses in one of the following two tracks.

Track 1 - Discrete Applied Math and Operations Research
CMPT 285 Discrete Mathematical Structures 3
MATH 464 Operations Research I 3
MATH 465 Operations research II 3

Track 2 - Statistics
MATH 440 Statistical Methods for Research 3
MATH 441 Statistical Computing 3
MATH 443 Introduction to Mathematical Statistics 3

Collateral Courses

One of the following sequences:

1. PHYS 191, 192 General Physics I, II 8
2. CHEM 120, 121 General Chemistry I, II 8
3. Select two courses from:
   BIOL 121 The Plant Kingdom 4
   BIOL 130 General Zoology I 4
   BIOL 131 General Zoology II 4
   BIOL 140 Cell Biology 4
   BIOL 215 Human Heredity 3
4. GEOS 112 Physical Geology 4
   GEOS 114 Historical Geology 4
5. ACCT 201, 202 Fundamentals of Accounting I, II 3
   MGMT 310 The Management Process 3
6. ECON 101, 102 Principles of Economics: Macro, Micro ..... 3 ea.
   MGMT 310 The Management Process 3

Elective Mathematics Courses

Select at least 12 s.h. of courses from the other track or from the approved list of courses that is available from the department.

Teacher Certification

Students desiring teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. The specific mathematics courses needed for certification should be obtained from the department.

Second Teaching Field in Mathematics

An approved program of at least 32 semester hours and satisfactory completion of The National Teacher Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education. Those students majoring in another field who wish to teach mathematics as a second field must take an approved 32 semester hour program in mathematics, including one course in computer science, as well as their major field requirements. Specific requirements may be obtained from the department.

Computer Science Major

Required Courses

CMPT 183 Foundations of Computer Science I 3
CMPT 184 Foundations of Computer Science II 3
CMPT 280 Assembly Language and Machine Organization I 3
CMPT 281 Assembly Language and Machine Organization II 3
CMPT 285 Discrete Math Structures 3
CMPT 287 Data Structures 3
CMPT 381 File Processing 3
CMPT 384 Systems Software 3

Collateral Courses

Mathematics
MATH 122 Calculus I 4
MATH 221 Calculus II 4
MATH 335 Elements of Linear Algebra 4
MATH 340 Probability 3
and

One of these four sequences
1. PHYS 191, 192 General Physics I, II ..... 4 ea.
2. CHEM 120, 121 General Chemistry I, II ..... 4 ea.
3. ACCT 201, 202 Fundamentals of Accounting I, II ..... 3 ea.
   MGMT 311 Management Process and Organizational Behavior 4
4. ECON 101, 102 Principles of Economics: Macro, Micro ..... 3 ea.
   MGMT 311 Management Process and Organizational Behavior 4

Note: The department recommends that students consider taking a second and possibly third sequence in collateral courses, as well as technical and scientific writing courses. Independent study in advanced areas is available. See the department chairperson for information.

Computer Science Major Electives

Select 9 semester hours from the appropriate list that is available from the department 9

Analysis and Theory Concentration

This concentration provides depth and breadth in the major areas of theory, abstraction, design and professionalism within the discipline of computer science. To qualify for this concentration, students must complete the required CMPT courses (24 s.h.) and the collateral MATH courses (15 s.h.) for the Computer Science Major, as well as the following:

Collateral Courses

One of the following sequences:

1. PHYS 191,192 General Physics I, II 8
2. CHEM 120, 121 General Chemistry I, II 8
3. BIOL 140 and either BIOL 120 or 130 8

AND 2 Non-lab courses for Science Majors 6
(See the department for an approved list of courses.)

Required Advanced Computer Science Courses

CMPT 385 Computer System Organization 3
CMPT 387 Principles of Data Communications 3
CMPT 481 Operating Systems 3
CMPT 484 Fundamentals of Programming Languages 3

Computer Science Electives

Select 3 courses (9 s.h.) from the list of approved courses which is available from the department.

Computer Science Minor

Students may earn a minor in computer science by satisfactorily completing an 18 semester hour program which includes CMPT, 183, 184, and 280, 285 and 287, and one other approved CMPT course. See the department for the list of approved courses. At least 9 semester hours must be taken at Montclair State College.

Computer Science Courses of Instruction

CMPT 107
COMPUTERS AND SOCIETY 2.0
The impact of the digital computer on modern society. The effect of information processing in the social and political spheres and the relation of computer information processing to human thought. Not for math/science majors. Meets the General Education Requirement - Mathematics, Computer Science.

CMPT 108
COMPUTERS AND PROGRAMMING 3.0
Develop programming competence in a language such as BASIC or Pascal and an introduction to the use of a word processing package. Problems will be primarily of a non-mathematical nature. Discussion of the impact of the computer revolution on society. Not for mathematics or computer science majors. Meets the General Education Requirement - Mathematics, Computer Science.

CMPT 109
INTRODUCTION TO COMPUTER APPLICATIONS 3.0
An introduction to the use of word processing, spread sheet and data base packages plus a discussion of the impact of computers on society. Not for mathematics major elective credit or computer science major elective credit. Meets the General Education Requirement - Mathematics, Computer Science.

CMPT 112
HONORS SEMINAR IN COMPUTING 3.0
Introduction to the theory, discipline, philosophy and applications of computing. The effect of computing upon the individual, the society, and the environment. Use of application tools including wordprocessing, spreadsheets, data bases, and communications. Crosslisted with HONP 112. Meets the General Education Requirement - Mathematics, Computer Science.
Prerequisite: Permission of the Director of the Honors Program.

CMPT 183
FOUNDATIONS OF COMPUTER SCIENCE I 3.0
Basic theory of digital computers. Syntax and semantics of a programming language. Algorithms: logic, design, testing and documentation. Meets the General Education Requirement - Mathematics, Computer Science.
Prerequisite: Math 114 or 115.

CMPT 184
FOUNDATIONS OF COMPUTER SCIENCE II 3.0
Continuation of CMPT 183. Algorithm development involving user functions; subroutines, recursions, structures file manipulation.
Prerequisite: CMPT 183.

CMPT 261
BUSINESS DATA PROCESSING 3.0
Applications in accounts receivable, payroll and inventory; language COBOL. Not for major elective credit.
Prerequisite: CMPT 183.

CMPT 280
ASSEMBLY LANGUAGE AND COMPUTER ARCHITECTURE 3.0
Computer structures, the conventional machine level, introduction to assembler language.
Prerequisite: CMPT 184.
Pre or corequisite: Either MATH 221 or MATH 113 and 114.

CMPT 281
THEORY OF DIGITAL MACHINES 3.0
Microprogramming level of a computer, the operating system level, gates, sequential and combinational circuits, flip-flops, registers, number codes.
Prerequisite: CMPT 280 and 285.

CMPT 285
DISCRETE MATHEMATICAL STRUCTURES 3.0
The structures include sets, graphs, digraphs, trees, networks, lattices, matrices, semigroups and groups. Many practical business and scientific problems can be posed and solved by the use of these structures.
Prerequisite: CMPT 183.
Corerequisite: CMPT 287 or permission of Academic Advisor.

CMPT 287
DATA STRUCTURES AND ALGORITHMS 3.0
Data structures including linear lists, strings, trees, chains, paging, data base design, storage systems, and structures.
Prerequisite: CMPT 184.
Corerequisite: CMPT 285 or permission of Academic Advisor.

CMPT 290
INTRODUCTION TO COGNITIVE SCIENCE 3.0
An introduction to the multidisciplinary field of cognitive science. Topics include: the mind-body problem, thought as computation and the computer model of the mind, the role of representation in mental activity. Emphasis will be upon the methodological approaches found in artificial intelligence, cognitive psychology, cognitive anthropology, cognitive neuroscience, linguistics, and philosophy.
Prerequisite: ANTH 100 or PSYC 101 or CMPT 183 or LNGN 210 or PHIL 100.

CMPT 363
INTRODUCTION TO NUMERICAL COMPUTING 3.0
Fundamentals of numerical computation, with emphasis on basic algorithms and their efficient implementation: appropriate treatment of theoretical bases. Topics include floating point arithmetic, roundoff error and propagation, numerical solution of nonlinear equations, interpolation and approximation, and numerical integration. The FORTRAN language will be taught and used in programming assignments.
Prerequisite: CMPT 183
Pre or corequisite: MATH 221.

CMPT 381
FILE PROCESSING 3.0
Secondary storage and their physical constraints. Types of fields and records. Sequential, direct, indexed, ISAM, and VSAM file organization. Sequential, random, and secondary access methods. Searching, sorting, updating and retrieving from files. File maintenance.
Prerequisite: CMPT 287.

CMPT 382
SYSTEM ANALYSIS AND DESIGN 3.0
A major project includes forms design, sequential files, files, merge, sort, and editing programs.
Prerequisites: CMPT 183.
Pre or corequisiste: Either MATH 221 or MATH 113 and 114.

CMPT 384
SYSTEMS SOFTWARE 3.0
Design and implementation of assemblers, linkage editors and loaders, libraries, macro processors, and text editors; their relationship to an operating system.
Prerequisites: CMPT 280, 287.

CMPT 385
COMPUTER SYSTEM ORGANIZATION 3.0
Introduction to chip technology, microprocessors, microcomputers, architecture, instruction sets and programming of microcomputers, and other bus-oriented computers.
Prerequisite: CMPT 281.

CMPT 387
PRINCIPLES OF DATA COMMUNICATIONS 3.0
Fundamentals of data communication topics. Analog digital, broadband-baseband, TDM-FDM, AM-FM techniques. Error codes and protocols.
Prerequisite: CMPT 281.

CMPT 388
FOUNDATIONS OF ARTIFICIAL INTELLIGENCE 3.0
A general, comprehensive coverage of the main areas constituting the field of artificial intelligence, introduction of computer vision, natural language, processing (NLR), pattern recognition and neural networks.
Prerequisite: CMPT 384.

CMPT 472
COMPUTER GRAPHICS 3.0
An introduction to computer graphics, including the algorithms to generate two-dimensional graphical pictures. An overview of interactive graphics and graphics devices.
Prerequisites: CMPT 287 and MATH 335.

CMPT 474
SOFTWARE ENGINEERING 3.0
This course is designed to introduce the principles and methods for the design, coding, and verification of large software systems. Topics include software design techniques, programming methodology, programming testing, and software reusability.
Prerequisites: CMPT 381 and 384.

CMPT 481
OPERATING SYSTEMS 3.0
System architecture; DOS, OS systems; multi-programming; virtual storage.
Prerequisite: CMPT 384.

CMPT 483
DATA BASE SYSTEMS 3.0
A comprehensive collection of data base organizations and design tools: file organizations and evaluations, database structures, schemata and implementations. Database security, operations and management.
Prerequisite: CMPT 381.

CMPT 484
FUNDAMENTALS OF PROGRAMMING LANGUAGES 3.0
Syntax and semantics of programming languages. Principles of compilers and compiler constructions, including object code generation.
Prerequisite: CMPT 384.

CMPT 485
COMPILER CONSTRUCTION 3.0
Introduction to the concepts and techniques used in the description of programming languages and in the construction of compilers.
Prerequisites: CMPT 484.

CMPT 486
DESIGN OF COMPUTER INTERFACES 3.0
Basic digital and analog computing circuits and interface circuits, computer-telecommunication interfaces.
Prerequisite: CMPT 385.

CMPT 487
LOCAL AREA NETWORKS (LAN'S) 3.0
Overview, topology, taxonomy, transmission, technology media and control protocols of microcomputer LAN'S.
Prerequisite: CMPT 387.

CMPT 490
HONORS SEMINAR IN COMPUTER SCIENCE 3.0
Topics not usually covered within standard computer science courses. A written and an oral report are required.
Prerequisites: CMPT 287, MATH 335 and permission of instructor.

CMPT 493
ADVANCED DATABASE THEORY 3.0
This course continues the introduction to data management. Topics include: security, integrity, concurrency and recovery query optimization. File structures and other performance issues.
Prerequisite: CMPT 483.

CMPT 495
TOPICS IN COMPUTER SCIENCE FOR UNDERGRADUATES 1.0-3.0
Study of specialized topics in computer science.
Prerequisites: CMPT 287, MATH 335 and permission of instructor.

CMPT 497
UNDERGRADUATE RESEARCH IN COMPUTER SCIENCE I 1.0-3.0
Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses CMPT 497, 498, MATH 497, 498.
Prerequisites: MATH 335, CMPT 281, instructor's permission.

CMPT 498
UNDERGRADUATE RESEARCH IN COMPUTER SCIENCE II 1.0-3.0
Individual research in areas of computer science agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses CMPT 497, 498, MATH 497, 498.
Prerequisites: MATH 335, CMPT 281, instructor's permission.

CMPT 499
COOPERATIVE EDUCATION IN COMPUTER SCIENCE 3.0-8.0
The study of theoretical ideas of computer science combined with their practical applications in a real life environment. The co-op experience is a semester working off-campus under the guidance of a company supervisor, and a faculty supervisor. Only 3 of the 8 credits may be used to fulfill the major requirement.
Prerequisites: CMPT 384 and approval of faculty coordinator and Cooperative Education Office.

Mathematics
Courses of Instruction

MATH 050
BASIC SKILLS MATH I:
COMPUTATION AND ELEMENTARY ALGEBRA 3.0
Fundamental operations on real numbers. Introduction to algebra including linear equations and the development of algebraic manipulative skills. Estimation. Problem solving. Use of hand-held calculators. Credits not usable toward graduation.

MATH 051
BASIC SKILLS MATH II: ALGEBRA 3.0
Basic elementary algebra course, includes fundamental algebraic processes, linear and quadratic equations, graphing and applications. Credits not usable toward graduation.

MATH 060
BASIC SKILLS MATHEMATICS LABORATORY -
COMPUTATION 3.0
Review of the fundamental arithmetic operations of real numbers. Whole numbers, fractions, decimals, percents, ratios, word problems and estimation are covered. Topics from elementary algebra may also be included. Credits not usable toward graduation. Small group tutoring in mathematics laboratory.

MATH 061
BASIC SKILLS MATHEMATICS LABORATORY - ALGEBRA 3.0
Review of elementary algebra, including fundamental algebraic processes, linear and quadratic equations, graphing, word problems and applications. Credit not usable toward graduation. Small group tutoring in mathematics laboratory.

MATH 103
THE DEVELOPMENT OF MATHEMATICS 3.0
The growth and development of mathematics from ancient to modern times; contributions of the great mathematicians. Not for math-science majors. Meets the General Education Requirement - Mathematics.

MATH 106
CONTEMPORARY APPLIED MATH FOR EVERYONE 3.0
The impact of modern mathematics on today's society in terms of management decision making, data collection and planning, social choice, including voting and apportionment, population studies, measurements of size and shape, as presented by the video series "For All Practical Purposes," produced by the Consortium for Mathematics and its Application (COMAP). Meets the General Education Requirement - Mathematics.
Prerequisite: One year of high school algebra.

MATH 109
STATISTICS 3.0
Introduction to the use and misuse of statistics. Topics include: analysis and presentation of data, variability and uncertainty in data, techniques of statistical inference and decision-making. Not for mathematics majors. Meets the General Education Requirement - Mathematics.
Prerequisite: MATH 050 or satisfactory performance on NJCBSPT.

MATH 110
INTERMEDIATE ALGEBRA 3.0
Topics include sets, relations, functions, development of number systems and algebraic operations. Students who received high school credit for intermediate algebra may not receive degree credit for MATH 110. Not for math/science majors.
Prerequisite: MATH 051 or satisfactory performance on NJCBSPT.

MATH 111
ENHANCED PRECALCULUS MATHEMATICS 4.0
The general aim of this course is to cover those topics, including trigonometric, exponential, logarithmic, rational, and polynomial functions, that regularly cause difficulties in the calculus sequence. Includes a two hour lab and uses graphics calculators extensively. May be substituted for MATH 115 (Precalculus Mathematics).
Prerequisite: MATH 110 or satisfactory performance on the NJCBSPT and three years of high school mathematics.

MATH 113
MATHEMATICS FOR BUSINESS I:LINEAR ALGEBRA 3.0
Matrices, linear programming, probability, statistics.
Prerequisites: MATH 110 or equivalent course or satisfactory performance on NJCBSPT and three years of high school mathematics.

MATH 114
MATHEMATICS FOR BUSINESS II: CALCULUS 3.0
The general aim of this course is to introduce the students to the basic skills of differentiation, integration, maxima-minima problems and several of the other applications of calculus, including modeling, especially models in business and economics.
Prerequisite: MATH 113.

MATH 115
PRECALCULUS MATHEMATICS 3.0
Binomial theorem, relations and functions, exponential and logarithmic functions, right triangle trigonometry, circular functions.
Prerequisite: MATH 110 or satisfactory performance on NJCBSPT and 3 years high school math or equivalent in lieu of MATH 110.

MATH 116
CALCULUS A 4.0
Differentiation and integration of functions, including trigonometric functions. Applications to biology and geoscience. Not for math, chemistry or physics majors. Meets the General Education Requirement - Mathematics.
Prerequisite: MATH 115.

MATH 117
MATHEMATICS AND COMPUTER SCIENCE FOR THE LIFE SCIENCES I 4.0
Descriptive statistics; counting techniques; permutations; combinations; sets; probability and probability distributions; tree diagrams; introduction to the BASIC language; simulation; role of computers in society. Applications include genetics, ecology, bio-chemistry, and population growth.
Prerequisite: MATH 051 or satisfactory performance on NJCBSPT.

MATH 118
MATHEMATICS AND COMPUTER SCIENCE FOR THE LIFE SCIENCES II 3.0
Mathematical models; hypothesis testing; genetics models; diversity in populations; randomness; contingency tables; regression analysis; tests of biological models. Methods of course applied to real biological data throughout with micro-computers used as a tool.
Prerequisite: MATH 117

MATH 120
CALCULUS I: PROBLEM SOLVING AND COMPUTING WORKSHOP 1.0
This is a supplementary problem solving section for Calculus I students, utilizing computer technology. Topics will include functions, limits, derivatives, anti-derivatives, the definite integral, and others from Calculus I. Free elective credit only.
Corequisite: MATH 122 or permission of the instructor.

MATH 122
CALCULUS I 4.0
Limits, continuity; derivative and differentiation; applications of the derivative, maxima, minima, and extreme considerations; antiderivatives; Riemann integral. Meets the General Education Requirement - Mathematics.
Prerequisites: MATH 115.

MATH 220
CALCULUS II: PROBLEM SOLVING AND COMPUTING WORKSHOP 1.0
This is a supplementary problem solving section for Calculus II students, utilizing computer technology. Topics will include applications of the definite integral, methods of integration, L'Hospital's Rule, sequences, series, and others from Calculus II. Free elective credit only.
Corequisite: MATH 221 or permission of the instructor.

MATH 221
CALCULUS II 4.0
Riemann integral applications, transcendental functions, techniques of integration, improper integrals, L'Hospital's rule, infinite series. Meets the General Education Requirement - Mathematics.
Prerequisite: MATH 122.

MATH 222
CALCULUS III 4.0
Vector algebra; partial differentiation, and extreme considerations; polar, cylindrical, and spherical coordinates, multiple integration; introduction to line integrals.
Prerequisite: MATH 221.

MATH 242
BIOSTATISTICS 3.0
Applications of statistical methods to toxicology. Experimental design, descriptive statistics, random sampling, estimation, inference, hypothesis testing: one and two sample test; anova, quality control, regression and bio-assay. Microcomputer and statistical packages. Not for math or computer science majors.
Prerequisite: MATH 122.

MATH 270
STATISTICS FOR BUSINESS 4.0
The comprehension and the application of modern statistical methods. Topics covered include: probability theory, descriptive statistics, interval estimation, sampling theory, parametric and non-parametric tests of significance, analysis of variance, correlation and regression analysis and time series analysis. Not for math/science majors, or students who have taken FINQ 270.
Prerequisite: MATH 114.

MATH 335
ELEMENTS OF LINEAR ALGEBRA 4.0
Vectors, vector spaces in 2, 3, and n-dimensions, systems of linear equations, matrices, determinants, linear transformations, and applications.
Prerequisite: MATH 221 or equivalent.

MATH 340
PROBABILITY 3.0
Chance and variability, elements of combinatorics, Bayes' theorem, random variables, binomial, poisson and normal distributions, applications to statistics.
Prerequisite: MATH 221 or equivalent.

MATH 350
COLLEGE GEOMETRY 3.0
Study of Euclidean and other geometries from an axiomatic point of view.
Prerequisite: MATH 221.

MATH 398
VECTOR CALCULUS 3.0
Topics include the algebra of the differential and integral, gradients, divergence and curl of a vector field, and integral theorems together with applications drawn from the physical sciences.
Prerequisite: MATH 222.

MATH 403
TECHNIQUES AND APPLICATIONS OF STATISTICS 3.0
Statistical techniques for the social and behavioral sciences including estimation, tests of hypothesis, non-parametric statistics, regression and correlation. May not be taken for credit by mathematic majors.

MATH 420
DIFFERENTIAL EQUATIONS 4.0
First order differential equations, partial derivatives and exact differentials, linear differential equations, numerical approximation, series solution, matrices, and systems of equations.
Prerequisites: MATH 221.

MATH 423
INTRODUCTION TO COMPLEX VARIABLES 3.0
This course is a study of the arithmetic and algebra of complex numbers, and an introduction to the differentiation and integration of complex functions. Topics include: rectangular and polar form of complex numbers, algebra of complex numbers, differentiation, Cauchy-Riemann equations, and contour integrals.
Prerequisite: MATH 222.

MATH 425
ADVANCED CALCULUS I 3.0
Properties of the real number system, limits, continuous functions, intermediate value theorem, derivative, Mean value theorem, Reimann integral.
Prerequisite: MATH 222 or equivalent.

MATH 426
ADVANCED CALCULUS II 3.0
Functions of several variables, partial derivatives, Green's theorem, Stoke's theorem, divergence theorem, implicit function theorem, inverse function theorem, infinite series, uniform convergence.
Prerequisite: MATH 425.

MATH 428
INTRODUCTION TO TOPOLOGY 3.0
Topological spaces, metric spaces, continuity compactness, connectedness, and separability properties; topological generalizations of basic continuity theorems of advanced calculus.
Prerequisites: MATH 425.

MATH 431
FOUNDATIONS OF MODERN ALGEBRA 3.0
Fundamental concepts of algebra including groups, rings, integral domains and fields, with important examples.
Prerequisite: MATH 335.

MATH 433
THEORY OF NUMBERS 3.0
Properties of integers, congruences, quadratic reciprocity law, primitive roots, diophantine equations, continued fractions, algebraic numbers, lattice points and partitions.
Prerequisite: MATH 221.

MATH 440
STATISTICAL METHODS 3.0
Applications of statistical methods: estimation, hypothesis testing, inference, enumeration data, correlation, regression, analysis of variance, nonparametric methods and elementary experimental design.
Prerequisite: MATH 340.

MATH 441
STATISTICAL COMPUTING 3.0
This course is designed: (1) to acquaint students with the use of the computer in solving statistical problems, and (2) to develop intermediate level statistical methodology. Several statistical computing packages and the student's own programs will be utilized.
Prerequisites: CMPT 183, MATH 440.

MATH 443
INTRODUCTION TO MATHEMATICAL STATISTICS 3.0
Develops statistical methods from probability theory. Topics discrete and continuous probability distributions, estimation, inference and hypothesis testing.
Prerequisite: MATH 440.

MATH 450
FOUNDATIONS OF GEOMETRY 3.0
Groups of transformations, an introduction to projective geometry.
Prerequisite: MATH 221.

MATH 463
INTRODUCTION TO NUMERICAL ANALYSIS 3.0
Finite differences, approximation theory, linear and non-linear equations, error analysis.
Prerequisites: CMPT 363, MATH 222, 335.

MATH 464
OPERATIONS RESEARCH I 3.0
Linear programming, transportation problem, assignment problem, duality, sensitivity analysis, network flows, dynamic programming, nonlinear programming, integer programming.
Prerequisite: MATH 335.

MATH 465
OPERATIONS RESEARCH II 3.0
Game theory, queuing models, inventory models, Markov processes, reliability theory and applications.
Prerequisites: MATH 340, 464.

MATH 469
MATHEMATICAL MODELING 3.0
The art of constructing mathematical models for "real world" problems, solving the model, and testing the accuracy of the model. Problems will be selected from business, science, computer science, and the social sciences.
Prerequisites: MATH 335 and 340 and either MATH 440 or 464.

MATH 470
TEACHING OF MATHEMATICS 4.0
Selection, organization, and presentation of secondary mathematics, classroom activities, lesson planning, techniques of motivation, evaluation, multisensory aids, principles of learning, and applications of the microcomputer to classroom teaching.
Prerequisites: Admission to Teacher Education Program.

MATH 471
SELECTED TOPICS IN MODERN MATHEMATICS 3.0
Professionalized view of junior and senior high school mathematics topics: functions, real and complex numbers, analytic geometry, absolute value and inequalities, sets and logic, flow charting, linear programming.
Prerequisites: Admission to Teacher Education Program.

MATH 475
HISTORY OF MATHEMATICS 3.0
Histories of geometry, number theory, algebra, calculus and infinite processes.
Prerequisites: MATH 221.

MATH 490
HONORS SEMINAR IN MATHEMATICS 3.0
This course will concentrate on subject matter not usually covered within standard mathematics courses. A written and oral report are required.
Prerequisites: MATH 222, 335, permission of Director of Honors Program.

MATH 495
TOPICS IN MATHEMATICS FOR UNDERGRADUATES 1.0-3.0
Study of advanced topics in undergraduate mathematics.
Prerequisites: MATH 222 and instructor's permission.

MATH 497
UNDERGRADUATE RESEARCH IN MATHEMATICS I 1.0-3.0
Individual research in a mathematical area agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses CMPT 497, 498, MATH 497, 498.
Prerequisites: MATH 335, instructor's permission

MATH 498
UNDERGRADUATE RESEARCH IN MATHEMATICS II 1.0-3.0
Individual research in a mathematical area agreed upon by the student and the instructor. The results of the research will be a basis of a seminar or colloquium to be given by the student. Students must not accumulate more than 6 credits total in courses CMPT 497, 498, MATH 497, 498.
Prerequisites: MATH 335, instructor's permission.

MUSIC

SCHOOL OF FINE AND PERFORMING ARTS
Chairperson: Edmund Battersby

The Department of Music stresses performance skills, breadth of musical understanding and work in the liberal arts. The department is accredited by the National Association of Schools of Music and is approved by the National Association for Music Therapy. Two degrees are offered, the Bachelor of Music and the Bachelor of Arts.

Concentrations available within the Bachelor of Music degree program are Performance, and Theory/Composition. Concentrations available within a Bachelor of Arts degree program are Music Theory and Music Education.

Entrance Requirements

General

Those who wish to major in music must have an interview and an audition on a primary instrument or voice. Prospective music majors should be able to show musicality, primary and secondary performing skills and knowledge of elementary music theory. It is important to have studied music seriously throughout high school. Participation in choral and/or instrumental groups and piano study are highly recommended for all applicants.

Applied Music

Primary instrument audition (vocal and instrumental)

Required of all prospective students. The audition consists of prepared repertory, preferably covering a range of styles, and of technical exercises, etudes, scales and sight reading; it generally lasts ten to fifteen minutes.

Music reading test

Required of all prospective students. Prospective students must demonstrate their proficiency in reading treble and bass clefs and their ability to sing intervals and to sight read simple melodies and rhythms. Prospective students who are judged deficient in these skills but seem to have sufficient talent to warrant admission will be required to take a pre-theory course which carries no credit toward graduation.

Interviews

Required of all prospective students wishing concentrations in education, music therapy, and theory/composition. The interviews for education and music therapy are intended to give the faculty a sense of a prospective student's knowledge of, interest in and fitness for the field in question. The theory/composition interview is normally accompanied by inspection of a prospective student's portfolio of compositions, arrangements and/or analyses. Prospective students wishing to concentrate in theory/composition should be prepared to present such a portfolio.

Music theory placement test

Required of all prospective students who have taken college level theory courses; optional for others. The test is designed for placement purposes and is normally not a factor in arriving at an admissions decision.

Music history placement test

Required of all prospective students who have taken college level music history courses; optional for others. The test is designed for placement purposes and is normally not a factor in arriving at an admissions decision.

Secondary instrument audition (vocal and instrumental)

Optional. A prospective student who has developed proficiency in a second instrument (or in voice) may audition on that instrument (or in voice).

Secondary piano placement test

Optional. All students (other than keyboard majors) must take four semesters of secondary piano. Prospective students (other than keyboard players)who have taken some piano and wish to be exempt from some or all of the secondary piano requirement should take a secondary piano test at the time of audition.

Final Admission to Program

Theory/Composition

Final admission in junior year; in addition to full audition requirements, candidates must submit a portfolio of compositions and/or analytical sketches before completion of sophomore year.

Music Therapy

Final admission in junior year; in addition to full audition requirements, all credentials (including reports of clinical experience) will be evaluated at the end of sophomore year.

Performance

Provisional acceptance is determined by an Applied Music jury at the end of the freshmen year unless a postponement to the middle of the sophomore year is requested by the major teacher. Full admission is delayed until completion of a sophomore recital and demonstration of a solid grasp of the technical aspects of the performing medium and genuine musicality and sensitivity.

Music Education

Final admission is granted only after an interview and review of credentials toward the end of the sophomore year.

Comprehensive Examination/ Assessment

At the end of the sophomore year, all students must demonstrate comprehensive musicianship in the performing primary, functional keyboard skills, theoretical and practical skills, secondary vocal skills and other materials germane to the student's concentration. Continuation as a music major is dependent upon adequate performance in these areas.

Applied Music Requirements for Graduation

All music students must study with members of the College faculty. There is an applied music fee, in addition to tuition, which must be paid for private instruction.

Students concentrating in performance will present a recital before the end of the sophomore year and another in the senior year. Students concentrating in music education will present a recital in the senior year. Students concentrating in theory/composition will present a recital of original compositions in the senior year.

Students are expected to accompany at a level of their ability as designated by their teachers and to participate actively in the musical life of the College and community.

All students, with the exception of first-semester freshmen, are expected to perform during a noon recital program at least once each semester of primary study.

Secondary instruction beyond the minimum requirements is available when schedules and other considerations allow.

Student Recital/Seminar Requirements for Graduation

Each week the Department of Music sponsors mid-day performances by students and lecture/recitals by faculty and guests. Every music major must register for MUGN 029, *Student Recital/Seminar*; on a pass-fail basis, for eight semesters or every semester of attendance at Montclair State College.

Ensemble Requirements for Graduation

The ensemble policy is based on the principle that all students must perform in ensemble(s) every semester of their attendance at Montclair State College in order to assure the broadest possible experience in important ensemble repertoire and to assure that these ensembles have the needed instrumentation for successful performance. Although minimum requirements vary with the concentration, this principle is the overriding one. In most cases, students will be expected to perform in their primary ensemble during each semester of attendance.

Students may be assigned by the department chairperson to an ensemble in accordance with the needs of the department, regardless of the satisfaction by the student of his minimum requirements.

Where admission to a chamber ensemble is by audition and a student fails to gain admission, additional performance in a large ensemble may, with the chairperson's consent, be substituted. Chamber ensembles must perform once a semester, either on student recital or for a jury.

Any changes in the ensemble policy will be posted in the Music Department.

Music Education: majors in voice, keyboards or guitar
6 semesters of choir
2 semesters of laboratory band/laboratory orchestra
2 semesters of jazz ensemble
2 semesters of chamber ensemble

Music Education: majors in stringed instruments
6 semesters of orchestra
2 semesters of choir
2 semesters of chamber ensemble
2 semesters of jazz ensemble

Music Education: majors in brass, woodwinds, percussion
6 semesters of band
2 semesters of choir
2 semesters of chamber ensemble
2 semesters of jazz ensemble

Performance: majors in voice
8 semesters of choir
4 semesters of chamber ensemble, including Opera Workshop
4 elective semesters

Performance: majors in guitar
8 semesters of chamber ensemble
4 semesters of choir
4 elective semesters

Performance: majors in stringed instruments
8 semesters of orchestra
4 semesters of chamber ensemble
4 elective semesters

Performance: majors in brass, woodwinds, percussion
8 semesters of band
2 semesters of choir
3 semesters of chamber ensemble
3 elective semesters

Performance: majors in keyboard instruments
8 semesters of choir
5 semesters of chamber ensemble
3 elective semesters

Theory/Composition: majors in voice, guitar
4 semesters of choir
8 semesters of chamber ensemble
4 elective semesters

Theory/Composition: majors in stringed instruments
8 semesters of orchestra
4 semesters of chamber ensemble
4 elective semesters

Theory/Composition: majors in brass, woodwinds, percussion
8 semesters of band
2 semesters of choir
3 semesters of chamber ensemble
3 elective semesters

Music Therapy:
6 semesters using primary instrument
2 semesters using secondary instrument

For the purposes of the above requirements, "chamber ensemble" includes Collegium Musicum, Madrigal Ensemble, Jazz Ensemble, Opera Workshop, and all solo/duet/trio/etc., repertoire which does not duplicate materials studied for solo recital or jury performance.

Performance Dress Code

Since the Department of Music has the training of future professional musicians as one of its major objectives, the music student is expected to dress as a professional whenever appearing before the public.

Mid-Day Recitals

Men: Dark suit, white shirt with collar, simple necktie, shoes and socks matching the suit. No informal attire is allowed.

Women: Simple dress or skirt and blouse; hose and dress shoes; simple costume jewelry is permitted but nothing that would be gaudy or distracting or that would call attention to itself.

Solo Recitals

Men: Same as for ensemble wear (see below) or simple tuxedo with appropriate accessories.

Women: Formal gowns, jewelry, hose and shoes appropriate to restraint in dress and avoidance of distraction.

Accompanists: Same as for ensemble wear (see below) or matching the attire of the soloist.

Ensembles

Men: Black or dark blue suit, solid color white collar shirt, with black, solid color four-in-hand tie; black shoes; black, over-the-calf hose.

Women: Black floor-length, solid color skirt, with either solid white long-sleeved blouse; hose, black shoes. Black pants suit with white blouse is also acceptable.

Instrumental Rental

A fee of $20 (subject to change) per semester is charged students who rent college-owned instruments. Summer rental is considered as a separate semester for this purpose.

Degree Requirements

All Majors

	Semester Hours
MUGN 029 Student Recital/Seminar, 8 semesters	0
MUHS 307/308 Music History I, II	6
MUCP 101, 102, 201, 202 Theory I, II, III, IV	12
MUCP 103, 104, 203, 204 Aural Skills I-IV	4
Secondary Piano (non-keyboard majors)	0-4
Ensembles (see above)	4-8

Music Education Concentration
(in addition to requirements for all majors)

Applied Music 18

Primary Instrument (seven semesters) 14
Secondary Instrument (four semesters) 4
Senior Recital 0

Music Theory 6

MUCP 303, 304 Theory V-Counterpoint, Theory VI-Orchestration 6

Additional Music Requirements 20-22
(Vocal/Instrumental Majors)

MUED 105, 205, 206, 306 Instrumental Methods (1 semester hour each) 4
MUED 200 Introduction to Music Education 2
MUED 334, 335 Choral Techniques 4
MUED 132 Marching Band Techniques 2
MUED 320 Teaching Music in the Elementary Grades K-6 3
MUED 420 The Teaching of Music in Secondary Schools 3
MUED 201, 202 Practicum in Music Education I, II 2
MUCP 310, 311 Keyboard Harmony I, II (Keyboard Majors) 2

Teacher Certification
Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. In addition, students must satisfactorily complete the courses MUED 320 Teaching Music in the Elementary School and MUED 420 The Teaching of Music in Secondary Schools.

Concentration in Performance: Voice
(in addition to requirements for all majors)

Applied Music 36

Primary/Major Instrument 28
MUPR 040 Master Class in Performance 4
MSSN 101, 102, 103, 104 Secondary Piano I-IV 4
Sophomore, Junior and Senior Recitals 0

Additional Music Requirements 8

MUPR340, 342/3, 344/5, 346/7 Italian, French, German and English Repertory and Diction

Required Collateral and General Education Courses 18

French, Italian and German languages (2 semesters each) 18

Concentration in Performance: Keyboard
(in addition to requirements for all majors)

Applied Music 32

Primary/Major Instrument 28
MUPR 040 Master Class in Performance 4
Sophomore, Junior and Senior Recitals 0

Music Theory 8

MUCP 303, 304 Theory V-Counterpoint, Theory VI-Orchestration 6
MUCP 310, 311 Keyboard Harmony I, II 2

Additional Music Requirements 12

MUPR 201, 202 Piano Literature I, II 4
MUPR 204 Piano Accompanying 2
MUPR 335 or 429 Elementary or Choral Conducting 2
MUPR 439, 440 Piano Pedagogy I, II 4

Concentration in Performance: Instrumental
(in addition to requirements for all majors)

Applied Music 40

Primary/Major Instrument 28
MUPR 040 Master Class in Performance 4
MSSN 101, 102, 103, 104 Secondary Piano I-IV 4
MUPR 276, 277 Instrumental Literature I, II 4
Sophomore, Junior and Senior Recital 0

Music Theory 6

MUCP 303, 304 Theory V-Counterpoint Theory VI-Orchestration 6

Additional Music Requirements 6

MUPR 439 Pedagogy I 2
MUPR 335 or 429 Elementary or Choral Conducting 2
Elective 2

Theory/Composition Concentration
(in addition to requirements for all majors)

Applied Music 20

Primary Instrument 8
Secondary Instrument 4
Instrumental Instruction 8

Music Theory and Composition 28

MUCP 303, 304 Theory V-Counterpoint Theory VI-Orchestration 6
MUCP 310, 311 Keyboard Harmony I, II 2
MUCP 412 Electronic Music Composition 3
MUCP 341, 342, 443, 444 Private Study in Composition I-IV 8
MUCP 401 Musical Composition 2
Electives 6
Note: If piano is the student's secondary instrument, a music elective may be taken instead of Keyboard Harmony I, II; if piano is the primary instrument, Secondary Piano I-IV is not required, but Piano Accompanying and a 2-semester hour music elective must be taken.

Additional Music Requirements 5
MUHS 407 Music History III 3
MUPR 335 or 429 Elementary or Choral Conducting 2

Music Therapy Major
(in addition to requirements for all majors)

Applied Music 18

Primary Instrument I-IV 8
Secondary Instrument I-IV 4
Ensembles 4
MSSN 21, 122 Secondary Guitar I, II 2
MUGN 029 Student Recital (8 semesters) 0

Music Theory and Music History 24

MUCP 101, 102 Theory I-II 6
MUCP 103, 104 Aural Skills I-II 2
MUCP 201, 202 Theory III-IV 6
MUCP 203, 204 Aural Skills III-IV 2
MUCP 401 Musical Composition 2
MUHS 307, 308 Music History I, II 6

Other Required Music Courses 9

MUED 105 String Instruments I 1
MUED 205 Brass Instruments 1
MUED 206 Woodwind Instruments 1
MUED 306 Percussion Instruments 1
MUED 334 Choral Techniques I 2
OR
MUPR 335 Elementary Conducting 2
MUGN 150 Influence of Afro-American Culture on Music 3
OR
MUGN 160 Introduction to Music in World Cultures 3
OR
MUGN 209 Introduction to Jazz 3

Additional Music Therapy Requirements 10

MUTH 105 Piano Improvisation for the Music Therapist 1
MUTH 106 Piano Accompanying Techniques for the Music Therapist 1
MUTH 260 Methods and Materials in Music Therapy 2
MUTH 262, 263, 361, 362, 363, 364 Music Therapy Practicum I, II, III, IV, V, VI 6

Professional Sequence 24

MUTH 100 Introduction to Music Therapy 2
MUTH 261 Therapy and Observation Skills for Music Therapy 2
MUTH 400 Music Therapy Training Group 1.5
MUTH 402 Guided Imagery and Music (GIM) 1.5
MUTH 461 Music Therapy with Children 3
MUTH 462 Music Therapy with Adults 3
MUTH 463, 464 Psychological Foundations of Music, I-II 4
MUTH 465 Internship in Music Therapy 1
PSYC 201 Child Psychology 3
PSYC 365 Abnormal Psychology 3

Required Collateral and General Education Courses

ARTH 250 Introduction to Art Therapy 3
BIOL 110 Biology of Human Life 4
MATH 109 Statistics 3
PSYC 101 General Psychology I: Growth and Development 3
PSYC 235 Psychology of Exceptional Children and Youth 3
SOCI 204 Sociology of the Family 3

Note: Students who are interested in taking Applied Music courses (MMIN, MPIN, MSIN, MSSN), please see the department chair.

Courses of Instruction

MUCP 100
MUSIC COMPOSITION FOR NON-MAJORS 3.0
Creative exploration of the various aspects of the craft of music composition. Deals with musical notation, instrumentation, forms, styles, contemporary techniques, performance, practice, etc.
Prerequisite: Ability to read music at a basic level.

MUCP 101
THEORY I 3.0
Study of harmony, counterpoint and musical analysis of small forms. Must be taken with MUCP 103. Meets four hours weekly.
Prerequisites: Majors only or instructor's permission.
Corequisite: MUCP 103.

MUCP 102
THEORY II 3.0
Continuation of MUCP 101. Meets four hours weekly. Must be taken with MUCP 104.
Prerequisites: MUCP 101, Majors only or instructor's permission.

MUCP 103
AURAL SKILLS I 1.0
Sight reading and dictation in major and minor modes, using diatonic chord progressions. Basic solfeggio. Must be taken with MUCP 101
Prerequisites: Majors only; instructor's permission.

MUCP 104
AURAL SKILLS II 1.0
Continuation of MUCP 103; must be taken with MUCP 102.
Prerequisites: MUCP 103; majors only; instructor's permission.

MUCP 150
FUNDAMENTALS OF MUSIC FOR THE NON-MAJOR 3.0
Introduction to music notation: reading of clefs, key signatures and their relationship to various modes; rhythm and meter: basic harmonic structures (intervals, triads, and seventh chords.) Sight singing and dictation stressed. Meets the General Education Requirement - Electives, Creative Expression.

MUCP 201
THEORY III 3.0
Chromatic harmony; intermediate contrapuntal techniques; analysis of the larger instrumental forms. Meets 4 hours weekly.
Prerequisites: majors only, MUCP 102 or instructor's permission.
Corequisite: MUCP 203.

MUCP 202
THEORY IV 3.0
Continuation of MUCP 201. Meets four hours weekly. Must be taken with MUCP 204.
Prerequisites: MUCP 201, music majors only or instructor's permission.

MUCP 203
AURAL SKILLS III 1.0
Chromatic and non-tonal sight reading and dictation. "Fixed do" Solfeggio. To be taken with MUCP 201.
Prerequisites: MUCP 104, majors only, instructor's permission.

MUCP 204
AURAL SKILLS IV 1.0
Continuation of MUCP 203. Must be taken with MUCP 202.
Prerequisites: MUCP 203, majors only, instructor's permission.

MUCP 303
THEORY V-COUNTERPOINT 3.0
Study of part writing, species and free contrapuntal practices and techniques. Contrapuntal and layer analysis.
Prerequisites: MUCP 202 or instructor's permission.

MUCP 304
THEORY VI-ORCHESTRATION 3.0
Study of compositional and arranging techniques appropriate to writing for individual instruments and voices and for ensembles of various size and character.
Prerequisites: MUCP 202, majors only.

MUCP 310
KEYBOARD HARMONY I 1.0
Skills pianists will need as professional performers, therapists, and educators. Harmonization, transposition, improvisation, realization of figured bass, reduction of open scores, and sight reading.
Prerequisites: Status as a keyboard major.

MUCP 311
KEYBOARD HARMONY II 1.0
Continuation of MUCP 310.
Prerequisites: MUCP 310, Majors only.

MUCP 341
PRIVATE STUDY IN COMPOSITION I 2.0
Restricted to majors in theory/composition.
Prerequisites: MUCP 202.

MUCP 342
PRIVATE STUDY IN COMPOSITION II 2.0
Restricted to majors in theory/composition.
Prerequisites: MUCP 341, majors only.

MUCP 401
MUSICAL COMPOSITION 2.0
Practical exploration of the various trends in the 20th century composition.
Prerequisites: MUCP 202.

MUCP 405
SELECTED TOPICS IN THEORETICAL STUDIES 1.0
Research and discussion of selected topics in theoretical studies focusing on stylistic and analytical problems to be offered as short term courses. May be repeated for credit.
Prerequisites: MUCP 304.

MUCP 412
ELECTRONIC MUSIC COMPOSITION 3.0
Exploration of electronic music techniques; practical experience in both concrete and synthesizer music.
Prerequisites: MUCP 202.

MUCP 443
PRIVATE STUDY IN COMPOSITION III 2.0
Restricted to majors in Theory/Composition. Special fee.

MUCP 444
PRIVATE STUDY IN COMPOSITION IV 2.0
Restricted to majors in Theory/Composition.
Prerequisites: MUCP 443.

MUCP 460
MANUSCRIPT PREPARATION 2.0
Study of methods of manuscript preparation, copying techniques and practical problems involved in preparing commercial scores for recording, film and background playing.
Prerequisites: Undergraduate theory, knowledge of notation.

MUCP 499
INDEPENDENT STUDY IN MUSIC THEORY/COMPOSITION 1.0-4.0
Project and/or study area planned with sponsoring faculty member.
Prerequisites: MUCP 202.

MUED 105
STRING INSTRUMENTS I 1.0
Elementary playing skills, violin being the basic instrument for all who lack string experience; materials and methods for beginning string classes. Music majors only.

MUED 106
STRING INSTRUMENTS II 1.0
Continuation of MUED 105.
Prerequisites: MUED 105, music majors only.

MUED 132
MARCHING BAND TECHNIQUES 2.0
Methods, organization and planning; drill design, playing, rehearsal techniques. Music majors only.

MUED 200
INTRODUCTION TO MUSIC EDUCATION 2.0
Methodologies, techniques and materials of music education philosophical and practical foundations and applications of learning theories.
Prerequisites: Sophomore music major status.

MUED 201
PRACTICUM IN MUSIC EDUCATION I 1.0
Supervised observation and participation in public school music classes and activities.
Prerequisites: For music majors; departmental permission.

MUED 202
PRACTICUM IN MUSIC EDUCATION II 1.0
Development of teaching skills by observation of public school music instruction and by serving as a teacher's aide.
Prerequisites: Music majors; MUED 201; advisor's permission.

MUED 205
BRASS INSTRUMENTS 1.0
Elementary skills on trumpet, horn, trombone and other brasses; materials and procedures for teaching these instruments in beginning classes. Music majors only.

MUED 206
WOODWIND INSTRUMENTS 1.0
Skills on clarinet, flute, oboe and other woodwinds; materials and methods for teaching these instruments, organizing woodwind classes. Music majors only.

MUED 303
CREATIVE MOVEMENT AND DANCE EXPERIENCES FOR CHILDREN 2.0
Investigating the principles of movement in relationship to the principles of music as a format for designing dance and movement experiences which enhance the music learning process. A focus on strategies appropriate for the elementary music classroom. Active participation.

MUED 306
PERCUSSION INSTRUMENTS 1.0
Elementary skills on snare drum, bass drum, timpani, cymbals, bells, etc.; materials and methods for teaching these instruments in the classroom. Music majors only.
Prerequisites: MUCP 202.

MUED 320
TEACHING MUSIC IN THE ELEMENTARY GRADES K-6 3.0
Processes of music teaching which enhance problem solving and critical thinking on the part of the student. Principles of designing strategies which encourage the development of music skills, creative musical thinking, and positive attitudes in both the general and instrumental classroom setting. Sequential curriculum. Discussion of current methodologies.
Prerequisites: MUCP 202, instructor's permission.

MUED 334
CHORAL TECHNIQUES I 2.0
Tone production, phrasing, enunciation, interpretation, testing and classification of voices, balancing parts, rehearsal routines, accompanying and conducting.
Prerequisites: MUCP 202.

MUED 335
CHORAL TECHNIQUES II - CONDUCTING 2.0
Rehearsal and performance techniques involved in such matters as attack, release, interpretation, balance, historical style, blend.
Prerequisites: MUED 334 or equivalent.

MUED 420
THE TEACHING OF MUSIC IN SECONDARY SCHOOLS 3.0
Philosophy, aims, content and procedures of music teaching in the junior and senior high school. Emphasis upon the teaching of the general music class and the incorporation of new methods. Lesson plans and units of work for use in the classroom. Includes observation and participation.
Prerequisites: MUED 320.

MUED 499
INDEPENDENT STUDY IN MUSIC EDUCATION 1.0-4.0
Project and/or study area planned with sponsoring faculty member.
Prerequisites: Instructor's permission.

MUGN 029
STUDENT RECITAL 0.0
All music majors must register for this number each semester in order to free their schedules for recital commitments.

MUGN 100
INTRODUCTION TO MUSIC 3.0
Expansion of musical awareness through live performance and directed listening. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

MUGN 150
INFLUENCE OF AFRO-AMERICAN CULTURE ON MUSIC 3.0
Ways in which the Afro-American culture has affected the development of American folk and art music. Meets the Multicultural Awareness Requirement.

MUGN 160
INTRODUCTION TO MUSIC IN WORLD CULTURES 3.0
The cultural and artistic forces which shape the musics of the non-Western world and the various folk and art musics resulting from those forces. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

MUGN 209
INTRODUCTION TO JAZZ 3.0
Jazz as an American phenomenon. Musical materials as manipulated by jazz artists, the impact on American popular music, dance and theater, early jazz players and developments. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation. Meets the Multicultural Awareness Requirement.

MUGN 236
THE AMERICAN MUSICAL 3.0
Introduction to the varieties of style in music for the purpose of extending dramatic action, characterization and atmosphere in musicals, operettas and musical comedies. Representative works from 1927 to present. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

MUGN 462
PROJECT IN MUSIC II: OPERA STUDY TOUR 3.0
Study tour to different locations described in winter session brochure each time it is offered. Offered during winter session only. Open to all. Enrollment limited to twenty students. Special fee required.
Prerequisite: Permission of instructor.

MUGN 499
INDEPENDENT STUDY IN MUSIC 1.0-4.0
Project and/or study planned with sponsoring faculty member.
Prerequisite: Instructor's permission.

MUHS 307
MUSIC HISTORY I 3.0
Research method and music bibliography. Styles, genres and shaping forces of Western music from the rise of polyphony in the Middle Ages through the music of Haydn and Mozart.
Prerequisites: MUCP 202, majors only or instructor's permission.

MUHS 308
MUSIC HISTORY II 3.0
Continuation of MUHS 307, beginning with Beethoven; the music of the Romantic era as manifested in the nineteenth and twentieth centuries; major currents of the Modern era.
Prerequisites: MUHS 307 or instructor's permission.

MUHS 400
SELECTED TOPICS IN MUSIC I 1.5
Intensive study of a single composer or limited array of works may be taken a second time. 7-week course.
Prerequisites: MUHS 307, 308, or instructor's permission.

MUHS 401
SELECTED TOPICS IN MUSIC II 1.5
Intensive study of a single composer or limited array of works may be taken a second time. 7-week course.
Prerequisites: MUHS 307, 308, or instructor's permission.

MUHS 403
SELECTED TOPICS IN MUSIC HISTORY 3.0
Intensive study of composer, a genre or a particular problem in the history of music. May be repeated for credit.
Prerequisites: MUCP 202 and MUHS 308.

MUHS 404
SELECTED TOPICS IN MUSIC HISTORY 3.0
Intensive study of composer, a genre or a particular problem in the history of music. May be repeated for credit.
Prerequisites: MUCP 202 and MUHS 308.

MUHS 407
MUSIC HISTORY III 3.0
Major figures, forms, genres and styles from Debussy to the present.
Prerequisite: MUHS 308.

MUHS 408
PROBLEMS IN MUSIC HISTORIOGRAPHY 3.0
The conditions and preconceptions involved in writing music history with particular emphasis on the current discussions of "positivism", narrative historical writing, and the role of "criticism". Special attention to Mendel's "Evidence and Explanation", the Kerman-Lowinsky debate and Kerman's and Treitler's views.
Prerequisites: Two years of music theory and one year of music history, or permission of instructor.

MUHS 462
PROJECT IN MUSIC I (SEMINAR) 3.0
Research on a project or problem in an area selected by each student with the instructor's approval; conducted in America or abroad.
Prerequisite: Permission of instructor.

MUHS 463
PROJECTS IN MUSIC II (SEMINAR) 3.0
Research on a project or problems in an area selected by each student with the instructors approval; conducted in America or abroad.
Prerequisite: MUHS 462, majors only, permission of instructor.

MUHS 499
INDEPENDENT STUDY IN MUSIC HISTORY AND LITERATURE 1.0-4.0
Project and/or study planned with sponsoring faculty member.
Prerequisite: Permission of instructor.

MUMG 460
INTERNSHIP IN PERFORMING ARTS MANAGEMENT I 4.0
Field work, 2 days per week (or the equivalent) in a professional situation. On-the-job training in day-to-day operations of a performing arts organization. Students will participate in all facets of production, observe decision-making activities. Registrants must drive and provide own transportation.
Prerequisites: MUMG 450, 451: permission of sponsor; permission of department chairperson; 1 semester of psychology.

MUMG 461
INTERNSHIP IN PERFORMING ARTS MANAGEMENT II 4.0
Continuation of internship in Performing Arts Management I; 2 days per week or equivalent in field work with an arts organization devoted to performance. Registrants must drive and provide own transportation.
Prerequisites: MUMG 460; permission of sponsor; permission of department.

MUMG 462
INTERNSHIP IN PERFORMING ARTS MANAGEMENT III 1.0-15.0
Full semester's internship in a performing arts organization with time allocation mutually decided by the sponsor and the student's major department. Interns must be able to drive and to provide own transportation.
Prerequisites: MUMG 461; permission of sponsor; permission of major department.

MUMG 470
EXTERNSHIP IN PERFORMING ARTS MANAGEMENT 1.0-15.0
Management of an arts organization arranged in cooperation with the major department and umbrella organizations. Credit to be arranged.
Prerequisites: MUMG 461; two semesters of internship; permission of sponsor(s) and major department.

MUPR 020
MADRIGAL SINGERS 0.0-0.5
Study through rehearsal and performance of Madrigals. Open to all through audition.

MUPR 031
ORCHESTRA 0.0-0.5

MUPR 032
BAND 0.0-0.5

MUPR 034
OPERA WORKSHOP 0.0-2.0
Opera studied through performance. Nature of dramatic music, problems of movement, make-up, costuming, props and scenery.
Prerequisites: Instructor's permission.

MUPR 038
COLLEGIUM MUSICUM 0.0-0.5
Study of early instruments: viola da gamba, lute, recorder, krummhorn, sackbut, psaltery, etc. Concert performance of Medieval, Renaissance, and early baroque music.

MUPR 040
MASTER CLASS IN PERFORMANCE 0.5
Performance of repertoire for coaching in interpretation, style, analysis, technique, etc. Required in conjunction with each course in the primary and major instrument.
Prerequisites: Primary instrument requirement must be met.

MUPR 060
MUSIC THEATRE PRACTICUM 1.0
Preparation and presentation of a work of musical theatre.
Prerequisites: Audition or permission of instructor.

MUPR 100
CLASS PIANO FOR THE NON-MUSIC MAJOR 3.0
Basic skills and fundamental knowledge of the keyboard. A basic knowledge of music reading is helpful but not necessary. Meets the General Education Requirement - Electives, Creative Expression.

MUPR 101
CLASS PIANO FOR THE NON-MUSIC MAJOR II 3.0
Continuation of basic skills and fundamental knowledge of keyboard. Music reading, both treble and bass clefs, required. Skills covered include sightreading, technical exercises, harmonization of melodies, and improvisation. The course will contain materials from various styles and periods of music, including Baroque, Classical, and Jazz.
Prerequisites: MUPR 100 or permission of instructor.

MUPR 103
VOICE CLASS FOR THE NON-MUSIC MAJOR 3.0
Study of singing through vocal exercises and the performance of English and American art, theatrical and popular songs. Meets the General Education Requirement - Electives, Creative Expression.

MUPR 105
MODERN GUITAR WORKSHOP 3.0
Sight reading, chord playing and technical skills needed for the commercial musical scene. Latin music, swing rhythms, rock interpretations, jazz styles (chord and single note soloing), effective accompaniment styles. Open to majors and non-majors. Basic knowledge of guitar, some reading ability required. Meets the General Education Requirement - Electives, Creative Expression.

MUPR 201
PIANO LITERATURE I 2.0
Investigation through performance and directed listening of standard piano repertoire from J.S. Bach to the present.
Prerequisites: Permission of instructor.

MUPR 202
PIANO LITERATURE II 2.0
Continuation of Piano Literature I.
Prerequisite: MUPR 201, majors only.

MUPR 203
SOPHOMORE RECITAL 0.0
Public performance of solo literature. Required of MUPR majors.
Prerequisite: Three semesters of private instruction or equivalent; majors only; instructor's permission.

MUPR 204
PIANO ACCOMPANYING 2.0
Problems of transposition, ensemble, interpretation and sight reading as applied to accompanying vocal and instrumental literature.
Prerequisite: Technique satisfactory to instructor.

MUPR 276
INSTRUMENTAL LITERATURE I 2.0
Survey of various instrumental genres for solo, small ensemble and orchestra.
Prerequisite: Performance ability on standard orchestra or band instrument.

MUPR 277
INSTRUMENTAL LITERATURE II 2.0
Continuation of Instrumental Literature I.
Prerequisites: MUPR 276, majors only.

MUPR 301
CHAMBER ENSEMBLE PERFORMANCE 0.0-0.5
Study through playing or singing of chamber music in ensembles of varying size and musical styles.
Prerequisite: Ability to perform at a level satisfactory to instructor.

MUPR 302
JAZZ ENSEMBLE 0.0-0.5
Contemporary ensemble requirements like jazz phrasing, section playing, interpretation, improvisation studied through ensemble rehearsal and performance.
Prerequisite: Permission of instructor.

MUPR 303
JUNIOR RECITAL 0.0
Public performance of solo literature. Required of MUPR majors, if MUPR 203 not completed.
Prerequisites: Five semesters of private instruction, or equivalent; majors only; instructor's permission.

MUPR 304
JAZZ KEYBOARD AND THEORY 2.0
Introduction to jazz techniques of harmonization, improvisation and theory at the keyboard in varying styles.
Prerequisites: MUPR 101, 102, 103, 104 or permission of instructor.

MUPR 335
ELEMENTARY CONDUCTING 2.0
Baton techniques and clef reading in orchestral and choral scores.
Prerequisites: MUCP 202.

MUPR 340
ITALIAN REPERTORY AND DICTION I 1.0
Italian art songs. Interrelation of the poetic text. The vocal musical line and the instrumental part; technical and the stylistic demands of the music. Italian diction introduced. Emphasis on listening and performing. Majors only.

MUPR 341
ITALIAN REPERTORY AND DICTION II 1.0
Continuation of MUPR 340.
Prerequisites: MUPR 340, majors only, basic knowledge of Italian diction.

MUPR 342
FRENCH REPERTORY AND DICTION I 1.0
Basic French for singing; enunciation and pronunciation; vocabulary.
Prerequisite: Some fundamental knowledge of use of singing voice, majors only.

MUPR 343
FRENCH REPERTORY AND DICTION II 1.0
Continuation of MUPR 342. Study of French repertory projection of text, musical style.
Prerequisites: MUPR 342; basic knowledge of French diction.

MUPR 344
GERMAN REPERTORY AND DICTION I 1.0
Basic German for singing. Enunciation and pronunciation; vocabulary.
Prerequisites: Some fundamental knowledge of use of singing voice.

MUPR 345
GERMAN REPERTORY AND DICTION II 1.0
Continuation of MUPR 344. Advanced material. Study of German repertory. Projection of text, musical style.
Prerequisites: MUPR 344, basic knowledge of German diction.

MUPR 346
ENGLISH REPERTORY AND DICTION I 1.0
Basic rules for singing in English; correcting poor everyday speech habits; learning songs.
Prerequisites: Fundamental knowledge of the singing voice.

MUPR 347
ENGLISH REPERTORY AND DICTION II 1.0
Continuation of MUPR 346. Art songs, contemporary arias; meaning of text and means of communicating words to the audience.
Prerequisites: MUPR 346, some experience in vocal performance.

MUPR 400
SELECTED TOPICS IN MUSIC I 1.5
Intensive study of a single composer or limited array of works. May be taken a second time; 7-week course. May repeat.
Prerequisites: Majors only or permission of instructor.

MUPR 401
SELECTED TOPICS IN MUSIC II 1.5
Intensive study of a single composer or limited array of works. May be taken a second time; 7-week course. May repeat.
Prerequisites: Majors only or permission of instructor.

MUPR 403
SENIOR RECITAL 0.0
Public performance of solo literature. Required of MUED and MUPR majors.
Prerequisite: Six semesters of private instruction or equivalent; majors only; instructor's permission.

MUPR 410
JAZZ IMPROVISATION LABORATORY 2.0
Jazz improvisation and performance techniques studied through ensemble rehearsals; creative use of instrumental and harmonic skills in the jazz idiom. May repeat.

MUPR 436
PIANO PEDAGOGY I 2.0
Methods and materials of teaching piano for piano grades I through IV. Music major - junior or senior.

MUPR 437
PIANO PEDAGOGY II 2.0
Methods and materials of teaching piano for piano grades V through VIII. Music major - junior or senior and completion of MUPR 436.

MUPR 439
PEDAGOGY I 2.0
Methods and materials of instruction in music.

MUPR 440
PEDAGOGY II 2.0
Continuation of MUPR 439.

MUPR 441
PEDAGOGY OF THE VOICE 2.0
Teaching techniques and pedagogical literature pertinent to instruction in singing. Majors only. Junior or senior standing.

MUPR 499
INDEPENDENT STUDY IN MUSIC PERFORMANCE 1.0-4.0
Project and/or study planned with sponsoring faculty member.
Prerequisite: Sponsoring instructor's permission.

MUTH 100
INTRODUCTION TO MUSIC THERAPY 2.0
Survey of use of music therapy with various populations and other topics of relevance to the music therapist.

MUTH 105
PIANO IMPROVISATION FOR THE MUSIC THERAPIST 1.0
Improvisation including basic Nordoff-Robbins techniques.
Prerequisite: MUPR 104, or its final examination.

MUTH 106
PIANO ACCOMPANYING TECHNIQUES FOR THE MUSIC THERAPIST 1.0
Continuation of MUTH 105 and completion of songs.
Prerequisite: MUTH 105.

MUTH 260
METHODS AND MATERIALS IN MUSIC THERAPY 2.0
A variety of music activities and how to adapt them for music therapy settings; leadership techniques; simple instruments used in therapy.
Prerequisites: MUTH 261, 262.

MUTH 261
THERAPY AND OBSERVATION SKILLS FOR MUSIC THERAPY 2.0
Observing, measuring, and recording behavior in a music therapy setting and other aspects of planning for music therapy session as well as observing music therapy sessions.
Prerequisite: MUTH 160, instructor's permission.

MUTH 262
MUSIC THERAPY PRACTICUM I 1.0
Improvement of the functioning of a client or group of clients with physical or mental disabilities through the use of music therapy. Discussion of the clients and their progress and other aspects of the clinical work.
Prerequisites: MUTH 160, 261.

MUTH 263
MUSIC THERAPY PRACTICUM II 1.0
Continuation of MUTH 262.
Prerequisite: MUTH 262.

MUTH 361
MUSIC THERAPY PRACTICUM III 1.0
Continuation of MUTH 263.
Prerequisite: MUTH 263.

MUTH 362
MUSIC THERAPY PRACTICUM IV 1.0
Continuation of MUTH 361.
Prerequisite: MUTH 361, majors only.

MUTH 363
MUSIC THERAPY PRACTICUM V 1.0
Continuation of MUTH 362.
Prerequisite: MUTH 362.

MUTH 364
MUSIC THERAPY PRACTICUM VI 1.0
Continuation of MUTH 363.
Prerequisite: MUTH 363.

MUTH 400
MUSIC THERAPY TRAINING GROUP 1.5
Expression and exploration of feeling through use of creative media. Particular attention to process so that experience may be generalized and subsequently used with client groups. Meets 2 1/2 hours per week for two semesters.
Prerequisite: Instructor's permission.

MUTH 402
GUIDED IMAGERY AND MUSIC (GIM) 1.5
Introduction to the facets of Guided Imagery and Music. Theory and process of the technique will be explored verbally and experientially. Is equivalent (with possible additional requirements) to Phase I GIM training, sponsored by IMI Training Seminars, Baltimore, MD.
Prerequisites: Open to juniors and seniors only; permission of instructor required.

MUTH 461
MUSIC THERAPY WITH CHILDREN 3.0
Ways in which music and the therapist may be used to influence the behavior of children, the mentally retarded, and the physically disabled.
Prerequisites: MUTH 260, junior standing.

MUTH 462
MUSIC THERAPY WITH ADULTS 3.0
Ways in which music therapy may be used in working with adult psychiatric patients, addictions, offenders, and geriatrics. Setting up a music therapy program.
Prerequisite: Senior standing.

MUTH 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
Emotional correlates of the musical experience are explored through research findings, psychological testing and inquiry, and philosophy. The implications of current theories applied to practice in music therapy, education and performance are discussed. This course is cross-listed with PSYC 463.

MUTH 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
The basic literature concerning psychological research in music is reviewed, with emphasis on experimental research techniques and interpretation of data. the implications of research for music therapy, education, and performance are discussed. This course is cross-listed with PSYC 464.

MUTH 465
INTERNSHIP IN MUSIC THERAPY 1.0
Six months clinical training as a music therapy intern in a training program approved by the National Association for Music Therapy.
Prerequisite: Completion of all course work leading to a Baccalaureate degree or equivalent.

MUTH 499
INDEPENDENT STUDY IN MUSIC THERAPY 0.5-4.0
Project and/or study planned with sponsoring faculty member.

PHILOSOPHY AND RELIGION

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Michael S. Kogan

Taking courses in philosophy and religious studies means gaining a greater ability to think clearly and independently about the central issues of human life. These studies present the occasion and the means to reflect critically on basic values and beliefs. The courses complement other major programs by enhancing awareness of the philosophical, ethical and religious elements and implications of other academic studies.

Both areas can be taken as a major leading to a Bachelor of Arts degree. They are also good second majors to enrich a liberal arts interest. A minor is offered in both programs. Each major is excellent preparation for later graduate and professional work.

Philosophy Major

Required Courses

		Semester Hours
PHIL 210	Ethics	3
PHIL 212	Social and Political Philosophy	3
PHIL 310	Knowledge, Belief and Truth	3
PHIL 312	Existence and Reality	3
Elective in Fields of Philosophy (even course numbers)		3
PHIL 331	History of Philosophy: Ancient Philosophy	3
PHIL 333	History of Philosophy: Modern Philosophy	3
Electives in History and Movements (odd course numbers)		9
Seminar in Philosophy (select one)		3
Total Semester Hours		**33**

Philosophy Minor

Required Courses (18 semester hours)

	Semester Hours
Fields of Philosophy (even course numbers)*	6-12
History and Movements in Philosophy (odd course numbers)*	6-12

*Consult with a departmental advisor for the choice of courses.

Religious Studies Major

Required Courses

RELG 100	Religions of the World	3
RELG 401, 403	Philosophical Backgrounds of Western Religion I, II	6

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21

Seminar in Religious Studies (select one) 3

Religious Studies Minor

Required Courses

RELG 101	Introduction to Religion	3
RELG 460, 462, 465, 467	Seminars in Religious Studies	3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Philosophy Courses of Instruction

PHIL 100
INTRODUCTION TO PHILOSOPHY 3.0
The nature, scope, methods, basic problems and major types of philosophy. Meets the General Education Requirement - Humanities, Philosophy/Religion.

PHIL 106
LOGIC 3.0
The forms of deductive and inductive argument in traditional logic, the fundamentals of modern formal logic, Meets the General Education Requirement - Humanities, Philosophy/Religion.

PHIL 202
ETHICS AND BUSINESS 3.0
A study of the meaning of morality in the modern world of business. Course contains a balance of theory and practice as it examines behavior of business against background of conflicting ethical theory.

PHIL 204
MORALS AND MEDICINE 3.0
A study of moral decision making in regard to specific moral problems arising in such areas of contemporary medical research and practice as experimentation on human subjects, euthanasia, abortion, information rights of patients, and eugenic sterilization.

PHIL 210
ETHICS 3.0
The nature of ethical judgments, the meaning of moral concepts, the conditions of moral responsibility and the methodological presuppositions of ethical theories. Meets the General Education Requirement - Humanities, Philosophy/Religion.

PHIL 212
SOCIAL AND POLITICAL PHILOSOPHY 3.0
The nature of society and the state, their relation to each other and to the individual, and an evaluation of some main political and social ideals. Meets the General Education Requirement - Humanities, Philosophy/Religion.

PHIL 231
AMERICAN PHILOSOPHY 3.0
The major American philosophers and philosophical movements with emphasis on Peirce, James, Royce, and Dewey.

PHIL 233
CONTEMPORARY PHILOSOPHERS 3.0
The major movements in contemporary philosophy, studied through writings of leading exponents.

PHIL 235
MARX AND MARXISM 3.0
The philosophy of Marx with special attention to his Hegelian background, his concept of man, and the genesis of his social and political philosophy. Engels, Lenin and contemporary existentialist Marxism are considered briefly.

PHIL 237
ORIENTAL PHILOSOPHY 3.0
Philosophical interpretations of experience and reality in representative movements of Eastern thought. Meets the Multicultural Awareness Requirement.

PHIL 239
EXISTENTIALISM 3.0
The major themes and concepts of existentialism in selected writings of the existentialist philosophers.

PHIL 260
PHILOSOPHIES OF ART 3.0
The major philosophies of art in the history of Western thought. The conceptual network of ideas of the thinker in question will be delineated, and connections shown between the thinker and the philosophical and artistic themes of that period.

PHIL 262
PHILOSOPHY OF RELIGION 3.0
The nature and shape of religious experience; criteria for meaning within religious thought and language. Metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.

PHIL 264
CRITICAL REASONING AND ARGUMENTS 3.0
An intermediary level course concentrating upon argumentation and rhetorical devices as they actually function in everyday conversation, philosophical discussion, forensic debate, etc. Arguments will be examined with an eye to penetrating purely formal structure and discovering the underlying dynamics which contribute to cogency in a given context.

PHIL 266
PHILOSOPHY OF SCIENCE 3.0
The epistemological character of scientific thought and the relevance of scientific findings for the clarification and eventual resolution of traditional philosophical issues.

PHIL 290
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Philosophy of science, philosophy of history, philosophy of law. Topics announced each semester.

PHIL 291
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Philosophy of science, philosophy of history, philosophy of law. Topics announced each semester.

PHIL 292
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Philosophy of science, philosophy of history, philosophy of law. Topics announced each semester.

PHIL 293
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Philosophy of science, philosophy of history, philosophy of law. Topics announced each semester.

PHIL 295
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.

PHIL 297
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.

PHIL 310
KNOWLEDGE, BELIEF AND TRUTH 3.0
The major issues and theories concerning the relationship between knowledge, experience and reality.

PHIL 312
EXISTENCE AND REALITY 3.0
An examination of major philosophical theories concerning the nature of reality.

PHIL 314
PHILOSOPHY OF LANGUAGE 3.0
The major philosophical theories concerning the nature of language in its relation to thought, reality and communication.

PHIL 316
PHILOSOPHY OF LAW 3.0
An introduction to the philosophical issues of juris prudence. Close attention is given to the status and nature of law, the concept of equality and the limits of law.

PHIL 324
LEGAL REASONING 3.0
The goal of this course is to provide students in the pre-law minor with the theoretical foundations to develop a model and a method of addressing legal problems. The course will acquaint students with principles of legal reasoning and argument in the Anglo-American common law tradition and a model of legal reasoning and a methodology for resolving legal problems as developed within evolving social and philosophical notions of justice and fairness.
Prerequisites: LSLW 200, PHIL 264.

PHIL 331
HISTORY OF PHILOSOPHY: ANCIENT PHILOSOPHY 3.0
The major philosophical systems and movements from the pre-Socratics to Plotinus with special emphasis on Plato and Aristotle.

PHIL 333
HISTORY OF PHILOSOPHY: MODERN PHILOSOPHY 3.0
The major philosophical systems and movements from the Renaissance to Kant.

PHIL 335
NINETEENTH CENTURY PHILOSOPHY 3.0
A study of the major philosophical figures and movements of the nineteenth century, with special emphasis on Hegel and the Hegelian tradition.

PHIL 390
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Topics announced each semester.

PHIL 392
FIELDS OF PHILOSOPHY: SELECTED TOPICS 3.0
Selected study of major fields in philosophy. Topics announced each semester.

PHIL 395
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.

PHIL 397
PERIODS AND MOVEMENTS: SELECTED TOPICS 3.0
Topics announced each semester.

PHIL 424
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers or works. Topic announced each semester.

PHIL 426
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems philosopher, or works. Topics announced each semester.

PHIL 427
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers, or works. Topic announced each semester.

PHIL 429
SEMINAR IN PHILOSOPHY 3.0
Cooperative research seminars in major movements, problems, philosophers, or works. Topics announced each semester.

PHIL 444
INDEPENDENT STUDY IN PHILOSOPHY 3.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

PHIL 446
INDEPENDENT STUDY IN PHILOSOPHY 3.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

PHIL 447
INDEPENDENT STUDY IN PHILOSOPHY 3.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

PHIL 449
INDEPENDENT STUDY IN PHILOSOPHY 3.0
Directed independent study and research in philosophy. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of philosophy.

Religion
Courses of Instruction

RELG 100
RELIGIONS OF THE WORLD 3.0
The major religious traditions, with emphasis on basic beliefs and on the nature and diversity of religious awareness. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 101
INTRODUCTION TO RELIGION 3.0
An inquiry into man's religious questions and expressions, their implications, and their critical appreciation and assessment. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 103
RELIGION AND MORAL ISSUES 3.0
Ethical issues as currently discussed by representative thinkers of the major Western religious traditions. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 200
OLD TESTAMENT: GENESIS TO JOSHUA 3.0
The evolution of the ancient Hebrew world view as developed in the biblical books covering the early period of Israelite history. The course includes a close reading of the books of Genesis, Exodus and Numbers, comparison with contemporary Middle Eastern religious texts and study of the biblical story from the creation through the career of Moses (circa

RELG 202
OLD TESTAMENT: JOSHUA TO DANIEL 3.0
The history and theology of Israelite religion as seen in the biblical books covering the middle and late periods (1150-165 B.C.E.).

RELG 204
NEW TESTAMENT: JESUS AND THE GOSPELS 3.0
The story of Jesus of Nazareth as told in the Gospels of Mark and Matthew. The course explores Old Testament backgrounds, Jesus' place in the Jewish religious context of first century Israel, the question of the historical Jesus and the origins of and relationships between the various gospel traditions.

RELG 206
NEW TESTAMENT: PAUL AND THE EARLY CHURCH 3.0
A close study of Luke-Acts, John, selected letters of Paul and other later Epistles. The course explores the development of the theology and institutions of the early church as revealed in New Testament documents of the first and early second centuries.

RELG 210
RELIGIONS OF THE NORTH AMERICAN INDIANS 3.0
An introduction to the religious traditions and spirituality of the American Indian peoples. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

RELG 212
ORIENTAL RELIGIONS 3.0
The cultural and theological bases for the faith and practice of major Eastern religions Buddhism, Confucianism, Hinduism, Taoism. Meets the Multicultural Awareness Requirement.

RELG 221
RELIGION AND CULTURE 3.0
The interrelation of religion and culture in the formulation of human values and views, life-styles and institutions. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 223
RELIGION IN AMERICA 3.0
The growth and development of various religious movements Protestant, Catholic, Jewish, and sectarian minorities from colonial times to the present.

RELG 225
RELIGION AND SOCIAL CHANGE 3.0
The impact of economic, social and political movements on religious belief and the ways in which religion has both furthered and impeded social development. Meets the General Education Requirement -Contemporary Issues.

RELG 229
PHILOSOPHY OF RELIGION 3.0
A philosophical examination of religion. It includes the nature and shape of religious experience: criteria for meaning within religious thought and language, metaphysical and epistemological implications of such questions as the nature and existence of God, and the possibility of life after death.

RELG 263
RELIGION AND PSYCHOLOGY I 3.0
The views of faith and the religious person reached by such major psychological approaches as the Freudian, Neo-Freudian, analytic-ego, existential and Jungian. The implications of such psychology for Jewish, Catholic, and Protestant believers and religious thinkers.

RELG 265
RELIGION AND PSYCHOLOGY II 3.0
Selected psychological investigations and/or theories of religious phenomena; the implications for constructive theology and positive religious response.

RELG 267
WOMEN IN RELIGION 3.0
Focuses on women's own experience in religions and the various perspectives of women held by both Eastern and Western religious traditions. The course deals with questions such as the nature of women, patriarchy and religion, and roles of women in religions. Meets the Multicultural Awareness Requirement.

RELG 269
DEATH AND DYING: RELIGIOUS PERSPECTIVES 3.0
This course is designed to give the student opportunity to study cross cultural religious and philosophical attitudes toward death and the procedures surrounding death. Material for the course will cover rituals of death and dying in both Eastern and Western religious tradition as well as "secular" rituals associated with death. Meets the General Education Requirement - Humanities, Philosophy/Religion.

RELG 273
THE HOLOCAUST: RELIGIOUS PERSPECTIVES 3.0
A study of Nazi extermination of 6,000,000 Jews during World War II and the moral and religious issues raised by this event.

RELG 300
CLASSICS OF WESTERN RELIGIOUS THOUGHT 3.0
Selected works of significant theologians of the Western tradition of issues such as the nature of God, Christology, Soteriology, Ecclesiology, Theodicy, etc.

RELG 304
ISLAMIC RELIGIOUS TRADITIONS 3.0
The historical origins of Islam, the emergence and development of various strands of religious tradition, and their impact on the modern world.

RELG 350
SELECTED STUDY IN WORLD RELIGIONS 3.0
Topics announced each semester.

RELG 352
SELECTED STUDY IN RELIGION 3.0
Topics announced each semester.

RELG 355
SELECTED STUDY IN RELIGION AND CULTURE 3.0
Topics announced each semester.

RELG 357
SELECTED STUDY IN RELIGIOUS THOUGHT 3.0
Topics announced each semester.

RELG 401
PHILOSOPHICAL BACKGROUNDS OF WESTERN RELIGION I 3.0
The inter-relationships of Western religion with philosophy from the pre-Socratics through the Middle Ages. The emergence of classical fields of philosophy.

RELG 403
PHILOSOPHICAL BACKGROUNDS OF WESTERN RELIGION II 3.0
The inter-relationship of Western religion with philosophy in the Renaissance, Enlightenment and Modern Period. The emergence of the autonomous spirit of criticism.

RELG 460
SEMINAR IN WORLD RELIGIONS 3.0
Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester.

RELG 462
SEMINAR IN RELIGION 3.0
Cooperative research seminar in major movements, problems, theologians.

RELG 465
SEMINAR IN RELIGION AND CULTURE 3.0
Cooperative research seminars in major movements, problems, theologians. Topic announced each semester.

RELG 467
SEMINAR IN RELIGIOUS THOUGHT 3.0
Cooperative research seminars in major movements, problems, theologians or works. Topic announced each semester.

RELG 490
INDEPENDENT STUDY IN RELIGION 3.0-12.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

RELG 492
INDEPENDENT STUDY IN RELIGION 3.0-12.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

RELG 495
INDEPENDENT STUDY IN RELIGION 3.0-12.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.

RELG 497
INDEPENDENT STUDY IN RELIGION 3.0-12.0
Directed independent study and research in religious studies. Open to students with a minimum of 3.0 cumulative average in at least 9 semester hours of religion.



PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Tim Sullivan

Physical Education Program

Those who graduate with the Bachelor of Science degree in Physical Education may choose either teacher education or adult fitness, a non-teaching concentration. Students concentrate within the major in a variety of areas which equip them for employment in schools, agencies or corporations where fitness is recognized as essential. Physical Education gives students a broad range of activities which develop self expression and skills for leisure, as well as a high level of physical fitness.

Physical Education (Teacher Education)

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

The Physical Education department has specific requirements for admission to the Teacher Education Program. Contact the Department for details.

Minimum grade point average, 2.67 in physical education specialization courses.

Minimum 15 semester hours in specializations by the end of sophomore year Transfer students need a minimum of 6 semester hours in physical education courses at Montclair State College.

		Semester Hours
Required Theory Courses		**23**
PEMJ 100	Orientation to the Physical Education Profession	1
PEMJ 150	Principles and Practices of Emergency Care	3
PEMJ 220	Physiology of Exercise	3
PEMJ 221	Kinesiology	3
PEMJ 222	Basic Motor Learning	3
PEMJ 244	Physical Education Field Experience	1
PEMJ 351	Adapted Physical Education	3
PEMJ 352	Development and Philosophy of Physical Education (Juniors and seniors only)	3
PEMJ 356	Management of Physical Education, Athletic, and Fitness Programs	3
Activity Courses		**14**
Collateral Courses:		
HLTH 101	Personal Health Issues	3
CHEM 107	College Chemistry I	2
CHEM 108	College Chemistry II	2
BIOL 240	Mammalian Anatomy and Physiology I	3
BIOL 241	Mammalian Anatomy and Physiology II	3
PEMJ 355	Measurement and Evaluation in Physical Education (Juniors and seniors only)	3

Specializations Within the Major

Students are required to select a specialization from one of the following. Each requires 13 semester hours of course work.

A. Individualized Fitness

Required Courses

		Semester Hours
PEMJ 255	Practicum in Selected Physical Education Programs	2
PEMJ 340	Fitness and the Aging Process	3
PEMJ 375	Foundations and Practices in Cardiac Rehabilitation	3
Select 2 semester hours from among the following 4:		2
PEGN 251	Aerobic Activities	1
PEGN 257	Weight Training and Conditioning	1
PEGN 263	Jogging	1
PEGN 278	Yoga	1
Departmental Electives by Advisement		3

B. Coaching

Required Courses

		Semester Hours
PEMJ 226	Coaching Principles and Problems	3
PEMJ 227	Social Problems in Sport	3
OR		
HLTH 353	Psychology of Sport	3
PEMJ 255	Practicum in Selected Physical Education Programs	2
Select 1 from among:		
PEMJ 301	Coaching Field Hockey	2
PEMJ 303	Coaching Basketball	2
PEMJ 304	Coaching Softball	2
PEMJ 306	Coaching Baseball	2
PEMJ 308	Coaching Football	2
PEMJ 309	Coaching Soccer	2
PEMJ 310	Coaching Swimming and Diving	2
PEMJ 317	Coaching Volleyball	2
PEMJ 332	Coaching Wrestling	2
PEMJ 333	Coaching Track and Field	2
Departmental Electives by Advisement		3

C. Athletic Training

Required Courses

		Semester Hours
PEMJ 223	Basic Prevention and Care of Athletic Injuries	3
PEMJ 323	Advanced Prevention and Care of Athletic Injuries	3
PEMJ 379	Internship in Athletic Training	4
Departmental Electives by Advisement		3

D. Individual Contract

Individualized 13 semester hour program prepared in consultation with an advisor and approved by the department chairperson if existing specialization areas do not meet the student's needs. *This specialization must be approved prior to any course selection.*

E. Adapted Physical Education

		Semester Hours
PEMJ 255	Practicum in Selected Physical Education Programs	2
PEMJ 362	Physical Activities for the Developmentally Disabled and Mentally Ill	3
PEMJ 363	Physical Activities for the Sensory and Physically Disabled	3
Department Electives by Advisement		5

Concentration Within the Major

Adult Fitness

(Non-Teaching Certification)

Required Courses 23

Semester Hours

PEMJ 100 Orientation to the Physical Education Profession 1
PEMJ 150 Principles and Practices of Emergency Care 3
PEMJ 220 Physiology of Exercise 3
PEMJ 221 Kinesiology 3
PEMJ 222 Basic Motor Learning 3
PEMJ 246 Field Experience in Adult Fitness 1
PEMJ 351 Adapted Physical Education 3
PEMJ 352 Development, and Philosophy of Physical Education 3
PEMJ 356 Management of Physical Education, Athletic, and Fitness Programs 3

Activity Courses Required 11

PEMJ 124 Badminton 1
OR
PEMJ 130 Tennis 1
PEMJ 131 Fitness Activities 2
PEMJ 151 Yoga, Relaxation and Stress Management 1
PEMJ 231 Fitness Assessment and Exercise Prescription 2
PEMJ 232 Exercise Leadership 2
PEMJ Aquatic Coure 1
PEMJ Gymnastic Requirement 2

Theory Specialization Core 28

PEMJ 340 Fitness and the Aging Process 3
PEMJ 375 Foundations and Practices in Cardiac Rehabilitation 3
PEMJ 376 Seminar in Fitness Programming 2
MKTG 340 Introduction to Marketing 3
BSED 101 Contemporary Business 3
COUN 331 Group Dynamics 3
HENU 182 Nutrition 3
Select One:
PEMJ 380 Internship in Physical Education 8
OR
PEMJ 381 Cooperative Education in Physical Education 8

Collateral Courses 16

HLTH 101 Personal Health Issues 3
CHEM 107 College Chemistry I 2
CHEM 108 College Chemistry II 2
Note: May select CHEM 120, 121 General Chemistry I, II as alternative ..8
BIOL 240 Mammalian Anatomy and Physiology I 3
BIOL 241 Mammalian Anatomy and Physiology II 3
PEMJ 355 Measurement and Evaluation in Physical Education (Juniors and seniors only) 3

Physical Education and Health Dual Teacher Certification Requirements

Required Courses

Physical Education Theory 23
(same as for Physical Education)

Activity 14
(Same as for Physical Education)

Health (Personal Health Issues is included) 22
HLTH 213 Perspectives on Drugs 3
HLTH 290 Human Sexuality 3
HLTH 401 Teaching of Health 4
HLTH 411 School Health and Community Services 3
Select One:
HLTH 210 Consumer Health 3
HLTH 220 Mental Health 3
HLTH 240 Foundations of Environmental Health 3
Select Two:
HLTH 307 The Study of Human Disease 3
HLTH 315 Public Health 3
OR
any other HLTH Health Profession course with advisement.

Collateral Courses 16

HLTH 101 Personal Health Issues 3
CHEM 107 College Chemistry I 2
CHEM 108 College Chemistry II 2
BIOL 240 Mammalian Anatomy and Physiology I 3
BIOL 241 Mammalian Anatomy and Physiology II 3
PEMJ 355 Measurement and Evaluation in Physical Education (Juniors and seniors only) 3

Professional Sequence for Teacher Education

The sequence is the same as for Physical Education Major except both Health Teaching and Physical Education Teaching are required in the supervised student teaching. *Please refer to the Teacher Education Program, outlined in this catalog, for specific information on the Professional Sequence.*

Recreation and Leisure Studies Program

As more leisure time becomes available, the opportunity for leadership in both the private and public areas of recreation and leisure enterprises grows. A student who enrolls in the department's program can earn a Bachelor of Science degree with a concentration in Commercial Recreation and Tourism or Therapeutic Recreation. Both of these areas of study are designed to prepare the student for either immediate entry into the profession or graduate study. Emphasis is placed on developing leadership skills for supervisory and management levels.

Courses are also open as electives for those majoring in other fields. Here the emphasis is placed on the role of recreation and leisure in life-planning and community service.

Recreation Professions Major

Required Courses

PERL 123 Leadership Techniques in Recreation and Leisure Services ... 3
PERL 124 Introduction to Recreation and Leisure Services 2
PERL 225 Program Planning in Recreation and Leisure 3
PERL 228 Recreation for Special Populations 3
PERL 312 Budget and Finance 3
PERL 350 Design, Maintenance, and Utilization of Recreation, Tourism and Recreation Facilities 3
PERL 322 History and Philosophy of Leisure, Play and Recreation 3
PERL 334 Research Methods in Recreation and Leisure Services 4
PERL 430 Management of Recreation and Leisure Services 4
*PERL 437 Senior Seminar 2
**PERL 489 Internship 12
*2.45 GPA needed
**Satisfactory completion of Senior Seminar
Recreation students are required to select an 18 semester hour concentration in their major, and include 6 semester hours of Psychology under General Education.

Concentrations Within the Major

Commercial Recreation and Tourism

Required Courses

		Semester Hours
PERL 311	Special Events Planning and Promotion	3
PERL 340	Introduction to Commercial Recreation and Tourism	3
PERL 342	Delivery of Commercial Recreation and Tourism Services	3
PERL 346	Tourism and Commercial Recreation, Planning, Development, and Analysis	3
Two Business Electives selected from approved list		6

Therapeutic Recreation

Required Courses

		Semester Hours
PERL 271	Clinical Experiences in Therapeutic Recreation (Taken three times for 1 semester hour each)	3
PERL 370	Introduction to Therapeutic Recreation	3
PERL 372	Recreation and Rehabilitation Services	3
PERL 377	Programming and Supervision in Therapeutic Recreation	3
Six semester hours by advisement		6

Note: Students in this concentration are required to take Mammalian Anatomy and Physiology I and II as part of their curriculum.

Courses of Instruction

Physical Education Non-Major Courses

PEGN 200
BEGINNING SWIMMING 1.0
This course is designed for beginning swimmers and those who are not comfortable in the water. The scope of the course will cover a wide variety of swimming strokes and survival techniques. Meets the General Education Requirement - Physical Education.

PEGN 202
BADMINTON 1.0
The history, techniques, strategies, terminology and rules of badminton are discussed. Meets the General Education Requirement - Physical Education.

PEGN 230
PERSONALIZED FITNESS 3.0
An introductory course in personalized fitness covering theories and techniques of the physiological and psychological components of fitness. Designed for second careers students.

PEGN 242
RACQUETBALL 1.0
The origin, development, and present status in the sport of racquetball will be studied. Basic skills, game strategy, and rules will be taught and applied. Meets the General Education Requirement - Physical Education.

PEGN 251
AEROBIC ACTIVITIES 1.0
This course will provide the student with an opportunity to recognize and develop cardiovascular conditioning, endurance and lifetime fitness skills. Meets the General Education Requirement - Physical Education.

PEGN 252
ARCHERY 1.0
Fundamentals and use of archery as a leisure pursuit. Meets the General Education Requirement - Physical Education.

PEGN 257
WEIGHT TRAINING AND CONDITIONING 1.0
A regimen of physical fitness (conditioning) exercises will be established for the individual student, and assistance will be rendered to help him or her in following this regimen in order to reach his or her maximum physical potential (muscle tone and endurance). Meets the General Education Requirement - Physical Education.

PEGN 258
BEGINNING TENNIS 1.0
Fundamental skills of tennis, singles and doubles play. Appreciation of tennis as a leisure pursuit. Meets the General Education Requirement - Physical Education.

PEGN 260
BEGINNING RIDING 1.0
Techniques for the beginner. Taught at a riding academy. Meets the General Education Requirement - Physical Education.

PEGN 262
VOLLEYBALL 1.0
Basic skills, game strategy and rules of volleyball. Meets the General Education Requirement - Physical Education.

PEGN 263
JOGGING 1.0
Proper techniques for jogging stressed, development of cardiovascular fitness through progressive running. Meets the General Education Requirement - Physical Education.

PEGN 264
SOCCER 1.0
The origin, development, and present status of soccer will be studied. Basic skills, game strategy, and rules will be taught and applied. As a service course to non-physical education majors, the principle aim is to introduce the student to the fundamentals of soccer. Meets the General Education Requirement - Physical Education.

PEGN 266
SKIING 1.0
The student is provided with information pertaining to basic techniques, safety, etiquette, and equipment relevant to his level of skiing. Instruction will be given on the slope for five weeks along with additional information to be given on campus. An additional fee is required for lift tickets and rental equipment. Meets the General Education Requirement - Physical Education.

PEGN 271
SOCIAL DANCE 1.0
The course covers the traditional ballroom dances as well as current popular styles and routines. Meets the General Education Requirement - Physical Education.

PEGN 272
BOWLING 1.0
Adequately prepare and develop the student with a background of the necessary skills essential to performing and understanding the art of bowling. Meets the General Education Requirement - Physical Education.

PEGN 274
SCUBA DIVING 1.0
Scuba diving techniques and safety. Meets the General Education Requirement - Physical Education.

PEGN 275
BEGINNING KARATE 1.0
Skills and development of personal ability in performance of the activity. Meets the General Education Requirement - Physical Education.

PEGN 278
YOGA 1.0
Instruction will be given in how to perform yoga postures, plus the techniques of breathing, relaxation, awareness, and concentration, with their proper progression. The historical and psychological factors involved in the development of yoga, and its increasingly widespread appeal physically and philosophically will be dealt with. Meets the General Education Requirement - Physical Education.

Physical Education Major Courses

PEMJ 100
ORIENTATION TO THE PHYSICAL EDUCATION PROFESSION 1.0
A professional orientation and an introduction to the breadth of the field of physical education in schools, industry and community agencies.

PEMJ 101
FIELD HOCKEY 1.0
The purpose of the course is to identify the basic skills, strategy and techniques of team play. Emphasis will be placed on individual skill development, team techniques, strategies and the application of these in game situation.

PEMJ 102
SOCCER 1.0
The history, development and present status of the sport. Basic skills, game strategy, rules, terminology and specifics concerning class organization, safety and evaluation will be presented.

PEMJ 103
BASKETBALL 1.0
The history, development and present status of the sport will be studied. The student will develop basic skills, and learn game strategy, rules and specific techniques concerning class organization, safety, and evaluation.

PEMJ 104
SOFTBALL 1.0
Skills, techniques, rules and concepts of team play and strategy essential to this sport and playing the game.

PEMJ 106
BASEBALL 1.0
Methods, theory, skill testing and class organization for effective teaching of baseball.

PEMJ 108
FOOTBALL 1.0
The history, development and present status of the sport basic skills and game strategy, rules and specific techniques concerning class organization, safety and evaluation.

PEMJ 110
AQUATICS 1.0
For those with a minimum amount of aquatic knowledge and skill. Swimming strokes, water stunts and springboard diving. Organization for teaching groups and safety precautions.

PEMJ 111
LIFEGUARD TRAINING 1.0
Developing individual skill and confidence in lifesaving and water safety skills. Open to undergraduate women and men.
Prerequisites: 1. Perform standing front dive. 2. Swim 500 yards continuously using various strokes 3. Dive from surface to minimum depth of five feet and swim underwater 15 yards 4. Tread water one minute.

PEMJ 112
WATER SAFETY INSTRUCTION/LIFEGUARD TRAINING INSTRUCTION 1.0
This course follows the standards and procedures for certification by the American Red Cross (ARC) as currently revised, 1989.
Prerequisite: A current A.R.C. emergency water safety or lifeguard training certificate.

PEMJ 113
MENS GYMNASTICS AND TUMBLING 2.0
This course is designed to introduce methods and materials in gymnastics and tumbling for the major students. Emphasis will be placed on the organization of gymnastic movements for learning according to their similarities in difficulty and execution. The role of the teacher in facilitating skill development in gymnastics and tumbling also will be emphasized.

PEMJ 114
WOMENS GYMNASTICS AND TUMBLING I 2.0
Developing skills on the apparatus; demonstrating an understanding of skills for elementary through high school. Safety measures related to equipment and spotting. Students perform progression for basic skills on all equipment.

PEMJ 115
LACROSSE 1.0
The history, development, and present status of the sport will be studied. The student will develop basic skills and learn game strategy, rules and specific techniques concerning class organization, safety and evaluation.

PEMJ 116
VOLLEY BALL 1.0
The student is provided with the history, development, and present status of the sport. Analysis of basic skills, game strategy, rules, terminology, plus specifics concerning class organization, safety, and evaluation. For the student who has had little or no volleyball experience.

PEMJ 120
BOWLING 1.0
The history, rules, techniques, strategies, terminology and rules are discussed and students attend classes at bowling alleys for practical experience.

PEMJ 122
GOLF 1.0
To permit students to attain the minimum skill necessary for understanding the fundamentals of this sport.

PEMJ 124
BADMINTON 1.0
A comprehensive analysis of the techniques and skills of each sport; current trends, rules, terminology, equipment and game strategy.

PEMJ 126
ARCHERY 1.0
The development and present status of archery; basic skills, tournament strategy and rules.

PEMJ 128
FENCING 1.0
This course will introduce the physical education major to the fundamental skills, techniques, strategies, and rules of foil fencing. Included are methods for implementing a fencing program in physical education classes.

PEMJ 130
TENNIS 1.0
This course will introduce the physical education major to the fundamental skills, techniques, strategy, and rules of tennis and explore ways to implement tennis instruction in a school situation.

PEMJ 131
FITNESS ACTIVITIES 2.0
A comprehensive course to provide the student with knowledge needed for developmental programming of personalized fitness activities utilizing all modes of fitness training.

PEMJ 132
WRESTLING 1.0
The history, development and present status of wrestling; basic skills, strategy, rules and specific techniques concerning class organization safety and evaluation.

PEMJ 134
TRACK AND FIELD 1.0
Techniques for performance and analysis of all track and field activity, including cross-country.

PEMJ 141
AMERICAN FOLK AND SQUARE DANCE 1.0
Skills and teaching methods in folk and square dance. The student will also experience calling a square dance.

PEMJ 142
EUROPEAN FOLK DANCE 1.0
This course will acquaint the student with a variety of European folk dance.

PEMJ 143
SOCIAL DANCE 1.0
The fundamental of social dance are presented to the student.

PEMJ 150
PRINCIPLES AND PRACTICES OF EMERGENCY CARE 3.0
Provides for study of emergency care management. Provides knowledge and skills for teaching principles and practices of emergency care in a school or adult fitness setting.

PEMJ 151
YOGA, RELAXATION AND STRESS REDUCTION 1.0
Provides for the development of basic skills in the performance and teaching of hatha yoga and basic neuromuscular relaxation. Each student will be able to plan and implement stress reduction programs for individuals in a one-to-one counseling situation and teach sessions in a classroom format.

PEMJ 220
PHYSIOLOGY OF EXERCISE 3.0
The physiological effects of physical activity upon the human organism. The reaction of exercises of speed, strength, and endurance upon the muscular and circulo-respiratory system.
Prerequisites: BIOL 240, 241.

PEMJ 221
KINESIOLOGY 3.0
An overview of the integrated functioning of the skeletal, muscular and nervous systems and the biomechanical principles governing efficient movement, in order to effectively analyze the performance of motor skills.
Prerequisites: BIOL 240, 241.

PEMJ 222
BASIC MOTOR LEARNING 3.0
This course provides students with knowledge of the theoretical basis of human learning and performance in motor activity.
Prerequisites: BIOL 240, 241.

PEMJ 223
BASIC PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
An introductory course designed to provide the student with information about those aspects of sports medicine which are necessary to the safe conduct of sports.

PEMJ 226
COACHING PRINCIPLES AND PROBLEMS 3.0
This course is designed to present an overview of the principles and problems pertaining to coaching on the high school and college levels.

PEMJ 227
SOCIAL PROBLEMS IN SPORTS 3.0
Designed to analyze a number of important and controversial issues of sports in American society. Meets the General Education Requirement - Contemporary Issues.

PEMJ 230
MODERN DANCE IN PHYSICAL EDUCATION 1.0
An introduction to modern dance technique and composition with an emphasis on basic class design and implementation.

PEMJ 231
FITNESS ASSESSMENT AND EXERCISE PRESCRIPTION 2.0
This comprehensive course will allow the student in the adult fitness concentration the opportunity to practice field test assessment skills and procedures. Students will also be exposed to all aspects of equipment and instrumentation commonly found in the fitness industry.
Prerequisite: PEMJ 131.

PEMJ 232
EXERCISE LEADERSHIP 2.0
This course provides an introduction to exercise leadership concepts covering theories and techniques of the physiological bases of strength training/conditioning and aerobic fitness activities.
Prerequisite: PEMJ 131.

PEMJ 235
MOVEMENT EXPERIENCES IN THE ELEMENTARY SCHOOL 2.0
A comprehensive activity course designed to present theory and practical application of movement experiences and non-sport activities in physical education in the elementary school.

PEMJ 244
PHYSICAL EDUCATION FIELD EXPERIENCE 1.0
This course will provide an opportunity for physical education majors interested in teacher education to examine the nature and function of physical education programs in a public school setting.

PEMJ 246
FIELD EXPERIENCE IN ADULT FITNESS 1.0
This course permits physical education majors interested in adult fitness an opportunity to observe and evaluate a variety of adult fitness programs.

PEMJ 248
TEACHING GYMNASTICS IN THE SCHOOLS 2.0
An understanding of the techniques of the teaching of gymnastics in physical education programs within the school setting will be provided.
Prerequisite: PEMJ 113 or 114.

PEMJ 255
PRACTICUM IN SELECTED PHYSICAL EDUCATION PROGRAMS 2.0
This field based course affords students in the physical education teacher education program an opportunity to apply theoretical knowledge in a practical situation in schools or agencies in the area of coaching, individualized fitness or adapted physical education.

PEMJ 301
COACHING FIELD HOCKEY 2.0
Concepts and organizational procedures for coaching field hockey skills, offensive and defensive strategies and rules.

PEMJ 303
COACHING BASKETBALL 2.0
The course is designed to provide students with an introduction to the art of coaching the game of basketball. Students have an opportunity to explore various contemporary styles and aspects of team play. Teaching, beginning with individual player development and progressing to team development, will be covered.

PEMJ 304
COACHING SOFTBALL 2.0
Concepts and organizational procedures for coaching softball. Skills, offensive and defensive strategies and rules.

PEMJ 306
COACHING BASEBALL 2.0
Individual skills and team techniques of coaching baseball; administration and organization of practice sessions for effective learning.

PEMJ 308
COACHING FOOTBALL 2.0
Techniques and methods of coaching football with emphasis on team play; offensive and defensive methods for running, passing and kicking game. Complete organization of a football program is presented.

PEMJ 309
COACHING SOCCER 2.0
The course is designed to provide students with an understanding of the theory and techniques of coaching soccer.

PEMJ 310
COACHING SWIMMING AND DIVING 2.0
Practical knowledge of coaching swimming and diving; coaching theory, the perfecting of skills and conditioning procedures.

PEMJ 317
COACHING VOLLEYBALL 2.0
Advanced playing strategies and information for coaching the advanced student at high levels of competition. Philosophy of coaching, characteristics and responsibilities of a coach.

PEMJ 323
ADVANCED PREVENTION AND CARE OF ATHLETIC INJURIES 3.0
This advanced level course integrates the knowledge of anatomy, physiology, biomechanics, nutrition, conditioning, and first aid. This course provides an understanding of the prevention, care, and rehabilitation of athletic injuries. Theoretical and practical aspects of the field will be presented through lecture and laboratory sessions in order to develop a broad background concerning the health care and medical management of athletic injuries. Athletic training is presented as a professional opportunity as well as an essential aspect in the education of physical educators and coaches.
Prerequisite: PEMJ 223.

PEMJ 332
COACHING WRESTLING 2.0
Techniques and methods of coaching wrestling. Emphasis on developing programs, mat tactics and strategy.

PEMJ 333
COACHING TRACK AND FIELD 2.0
Integrating philosophy, psychology, principles and techniques of track and field activities with actual practice. For men and women with appropriate concentrations as well as a common core of activities.
Prerequisite: PEMJ 134.

PEMJ 340
FITNESS AND THE AGING PROCESS 3.0
The anatomic, physiologic and social changes experienced by the older adult as he/she ages. The students will learn the bases for selection of appropriate activities and techniques for communicating with this specialized population. Field experiences involving older adults in fitness settings will be included in this course.
Prerequisites: PEMJ 220, BIOL 240, 241 or permission of instructor.

PEMJ 345
AQUATIC MANAGEMENT 3.0
This course is designed to provide the student with skills and knowledge in the area of aquatic management which will enable them to develop appropriate programs at swim clubs, community pools, camps and health clubs.

PEMJ 351
ADAPTED PHYSICAL EDUCATION 3.0
This is a lecture and practicum course covering the introductory techniques for conducting a physical education program to meet the needs of the developmentally disabled. Each student is required to spend a minimum of 15 hours of laboratory experience in schools, agencies, and/or institutions.
Prerequisites: BIOL 240, 241.

PEMJ 352
DEVELOPMENT AND PHILOSOPHY OF PHYSICAL EDUCATION 3.0
The history and development of physical education are traced from primitive to modern times. Influences which contributed to the modern philosophy of physical education are identified. May not be taken until junior year.

PEMJ 353
PSYCHOLOGY OF SPORT 3.0
Psychology related to physical activity on emotional, attitudinal and personality aspects, motivation, cultural and sociological problems of athletes, spectator response and deportment.

PEMJ 355
MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION 3.0
Tests and measurements specifically concerned with the area of physical education. Tests and measurements as tools for better teaching as well as for research. Open to juniors and seniors only.

PEMJ 356
MANAGEMENT OF PHYSICAL EDUCATION ATHLETIC AND FITNESS PROGRAMS 3.0
This course reviews comprehensive information about the administration and management of physical education, athletics and fitness programs. Current trends, practices and support services essential to the development of these programs will be examined. Not for freshmen.

PEMJ 357
TEACHING OF PHYSICAL EDUCATION 4.0
Methods of teaching and principles of learnings as they apply to growth, development and movement. Urban, inner city, suburban and rural situations and conditions related to learning facilities and equipment.
Prerequisites: Acceptance into Teacher Education.

PEMJ 362
PHYSICAL ACTIVITIES FOR THE DEVELOPMENTALLY DISABLED AND MENTALLY ILL 3.0
The development of physical activities designed to meet the unique needs of the mentally retarded, emotionally disturbed and learning disabled. Etiologies, legislation, motivational procedures and programming strategies will be reviewed. Field work is required.

PEMJ 363
PHYSICAL ACTIVITIES FOR THE SENSORY AND PHYSICALLY DISABLED 3.0
The development of awareness of the architectural barriers physical and social difficulties encountered by the sensory and physically disabled, the student will have the opportunity to develop physical activities designed to meet the unique needs of the visually, auditorily and orthopedically disabled, etiologies, legislation, motivational procedures and programming strategies will be reviewed, each student is required to complete a practicum.

PEMJ 375
FOUNDATIONS AND PRACTICES IN CARDIOPULMONARY REHABILITATION 3.0
Knowledge and skills related to cardiopulmonary rehabilitation which is necessary for working with post-cardiac individuals in the post-hospital continuing exercise program. Students will be expected to demonstrate a high level of competence in all aspects of the course. Field work required.
Prerequisites: PEMJ 220, BIOL 240, 241, instructors' permission.

PEMJ 376
SEMINAR IN FITNESS PROGRAMMING 2.0
Specifically designed for the student in the adult fitness concentration to bring together a series of background topics into a seminar experience. The course will discuss practitioner roles, the establishment of criteria for the evaluation of fitness programs in a variety of settings, individual factors which influence participation adherence, and practical considerations which apply to fitness programming.

PEMJ 379
INTERNSHIP IN ATHLETIC TRAINING 4.0
Designed for the student interested in becoming certified as a trainee (NATA). Through an internship program the student will be provided the opportunity to apply the background information obtained in both basic and advanced prevention and care of athletic injuries course. The proposed course will also meet the NATA requirement for field experience. This course available to students not completing the student teacher experience only.
Prerequisites: PEMJ 150, 223, 323.

PEMJ 380
INTERNSHIP IN PHYSICAL EDUCATION 8.0
The internship offers the student an opportunity to work as a trainee with professionals in organizations and/or agencies.
Prerequisites: Minimum of 105 s.h. completed, 2.25 G.P.A.

PEMJ 381
COOPERATIVE EDUCATION IN PHYSICAL EDUCATION 4.0-8.0
Integrates academic study with supervised employment outside the formal classroom environment. The co-op term is a semester off-campus during which a student, while supervised by a department faculty coordinator is responsible for completing the terms of a predetermined learning contract. Available to students not completing the student-teacher sequence only.
Prerequisites: 60 s.h. completed, 2.45 G.P.A., 2.67 major G.P.A. or permission of instructor.

PEMJ 399
INDEPENDENT STUDY IN PHYSICAL EDUCATION 1.0-6.0
Provides an opportunity to pursue independent study in one of the specialized areas of physical education.

PEMJ 424
THERAPEUTIC EXERCISE IN ATHLETIC TRAINING 3.0
An introduction to therapeutic exercise programs for rehabilitation of athletic injuries sustained to the head, axial region, and upper and lower extremities. Gender and age issues related to therapeutic exercise are presented and practical applications of injury assessment, exercise technique manipulation, and evaluation procedures are included.
Prerequisites: BIOL 240 and 241, PEMJ 323.

PEMJ 425
THERAPEUTIC MODALITIES IN ATHLETIC TRAINING 3.0
An introduction to therapeutic modalities used for athletic injury rehabilitation within athletic training programs. Topics include physiological effects of therapeutic modalities, theory and principles related to modality utilization, indications and contraindications associated with modality utilization. Practical applications of therapeutic modalities is included.
Prerequisites: BIOL 240, 241, PEMJ 323.

PEMJ 444
SEMINAR IN PHYSICAL EDUCATION 1.0
This course permits physical education student teachers an opportunity to discuss and evaluate the experiences they have in a physical education setting while student teaching.
Prerequisites: Accepted into Teacher Education Program, and enrolled concurrently in CURR 411, Supervised Student Teaching.

PEMJ 454
ADMINISTRATION OF ATHLETIC TRAINING PROGRAMS 3.0
An overview of administrative components of an athletic training program for high school, college, and professional athletic organizations. Topics include financial management, training room management, personnel supervision and health care services for athletes. Practical experiences in budget management, and a case study approach to issue resolution are included.
Prerequisites: PEMJ 424 and 425.

PEMJ 492
SELECTED TOPICS IN PHYSICAL EDUCATION 1.0-3.0
A theoretical and practical in-depth study in a current aspect of physical education. Topics will be determined prior to course offering and publicized.

Recreation and Leisure Studies Courses

PERL 105
OUTDOOR RECREATION SKILLS 2.0
Introduction to a wide variety of outdoor recreation and leisure pursuits with emphasis upon skill acquisition. Field visits required.

PERL 107
WINTER OUTDOOR RECREATION SKILLS 2.0
Taught at the New Jersey School of Conservation. Emphasizes the development of outdoor recreation skills by direct participation in various activities including ski touring, snowshoeing, ice fishing, curling, and winter survival. If weather is unseasonably mild, substitutes such as rock climbing, orienteering and backpacking will be taught. A special fee includes room, board, and equipment use.
Prerequisite: Approval of department chairperson.

PERL 123
LEADERSHIP TECHNIQUES IN RECREATION AND LEISURE SERVICES 3.0
Theory, principles, techniques, and processes of the different types of leadership styles in a variety of recreation programs and leisure services. Application of the different styles and techniques through the planning, delivery, and evaluation of appropriate activities.

PERL 124
INTRODUCTION TO RECREATION AND LEISURE SERVICES 2.0
An orientation course to the broad spectrum of services which are provided to society by recreation and leisure services practitioners. The course also presents the career opportunities available in the field.

PERL 208
LEISURE AND RECREATION IN SOCIETY 3.0
Analysis and interpretation of the concepts of leisure, its role in individual, community and national lifestyles, its social and economic significance. The role of recreation programs and services in meeting current and future needs of society. For non-recreation and leisure studies majors only.

PERL 225
PROGRAM PLANNING IN RECREATION AND LEISURE 3.0
Theory, principles and practices of systematic program planning. Field observation and participation is required.
Prerequisite: PERL 123 and 124.

PERL 228
RECREATION AND HOSPITALITY FOR SPECIAL POPULATIONS 3.0
Adaptation of recreation and leisure services for persons with special needs and limitations, role of institutions and community agencies, specialized leadership techniques, modification requirements for areas, facilities equipment, and supplies.
Prerequisite: PERL 225.

PERL 271
CLINICAL EXPERIENCES IN THERAPEUTIC RECREATION 1.0
Individualized student placements in clinical settings provide opportunity to gain firsthand knowledge of therapeutic recreation and prescriptive programming services. May be repeated for credit to a total of 3 semester hours.
Prerequisites: BIOL 240, 241.

PERL 285
FIELD EXPERIENCE IN RECREATIONS AND PARKS 2.0-4.0
Supervised on-site laboratory experience in an approved recreation or leisure service area. Seminar meetings and individual conferences required.
Prerequisite: Approval of department chairperson.

PERL 299
SELECTED TOPICS-RECREATION AND PARK ADMINISTRATION 1.0-3.0
Professional inquiry into the study of a selected issue, problem or trend in recreation and park administration.
Prerequisite: Approval of department chairperson.

PERL 311
SPECIAL EVENTS PLANNING AND PROMOTION 3.0
This course is a course in advanced recreation and functionally related services programming. It includes the analysis, planning and execution of special events and related activities involving large numbers of people and diverse publics. Topics include event philosophy and planning, technical and legal consideration, crowd management and promotion. Field trips required.
Prerequisite: PERL 225.

PERL 312
BUDGET AND FINANCE IN RECREATION AND TOURISM 3.0
Study of the various sources and methods of financing, including exploration of the philosophy and mechanics of the budgetary process in recreation and park systems.
Prerequisite: PERL 225.

PERL 322
HISTORY AND PHILOSOPHY OF LEISURE, PLAY AND RECREATION 3.0
A study and analysis of the philosophical concepts concerning leisure, play and recreation, including the historical milieu that supports past theories, current thoughts and practices, and the philosophical directions for the future of recreation and leisure services.

PERL 334
RESEARCH METHODS IN LEISURE SERVICES 4.0
An introduction to the various techniques and methods used in research, the appropriate application of research methods, statistical methodology and other analytical tools for investigating problems in recreation and park professions.
Prerequisites: PERL 124, 225.

PERL 340
INTRODUCTION TO COMMERCIAL RECREATION AND TOURISM 3.0
Analysis of the commercial recreation and tourism industries. Includes a study of participant profiles, types of commercial and resort enterprises, national tourism studies. Employment opportunities trends and issues. Field visits required.
Prerequisite: PERL 124.

PERL 341
INTRODUCTION TO THE HOSPITALITY INDUSTRY 3.0
The scope and nature of the industry. An orientation to career opportunities and education for the hotel and hospitality industry.
Prerequisite: PERL 124.

PERL 342
DELIVERY OF RECREATION AND TOURISM SERVICES 3.0
Methods and procedures for organizing and implementing commercial recreation and tourism enterprises. Includes an in-depth analysis of delivery systems, economic and marketing trends and promotion. A class research project is part of the course requirements. Field visits required.
Prerequisite: PERL 340.

PERL 343
DELIVERY OF HOTEL/RESORT RELATED SERVICES 3.0
The analysis and examination of selected business operations which are of importance to the overall success of hotels/resorts, including travel agencies, tour companies, gift shops, restaurants, and recreational facilities.
Prerequisite: PERL 341.

PERL 346
TOURISM AND RECREATION PLANNING, DEVELOPMENT AND ANALYSIS 3.0
Skills and techniques used in the planning, development, and analysis of tourism and commercial recreation facilities. Students will be required to complete a major research project.
Prerequisites: PERL 340, or 360, and 334.

PERL 350
DESIGN, MAINTENANCE AND UTILIZATION OF RECREATION, TOURISM AND PARK FACILITIES 3.0
This course familiarizes the student with the design, planning, maintenance and utilization of recreation, tourism and park facilities. An exploration of the preservation of open space and its relationship to recreation is also included. Field trips are required.

PERL 354
MARKETING HOTELS, RESORTS AND RELATED SERVICES 3.0
Analysis of advertising, sales promotion, personal selling, and the application of marketing research to hotels, resorts and related operations.
Prerequisites: PERL 225, 311, 334, 341.

PERL 355
DEVELOPMENT AND MANAGEMENT OF HOTELS/RESORTS 3.0
Comprehensive information about the development and management of and the specific skills necessary in the operation of hotels/resorts.

PERL 370
INTRODUCTION TO THERAPEUTIC RECREATION 3.0
An introduction to therapeutic recreation as a profession and service in clinical and community settings. The course includes an analysis of current issues and trends in the field, employment opportunities, and the concept of professionalism.

PERL 372
RECREATION AND REHABILITATION SERVICES 3.0
Study of roles and interrelationships of professional personnel in the rehabilitation services in medical, correctional, and community settings. The team approach to rehabilitation services will be emphasized. Field visits required.
Prerequisite: PERL 228.

PERL 377
PROGRAMMING AND SUPERVISION IN THERAPEUTIC RECREATION 3.0
This course includes assessment, planning and implementation of appropriate services and department programs and evaluation strategies. The course addresses basic program and personnel supervision of therapeutic recreation.
Prerequisites: BIOL 241 and PERL 228.

PERL 381
COOPERATIVE EDUCATION IN RECREATION AND PARKS 4.0-8.0
Integration of academic study with supervised employment outside the formal classroom environment. The cooperative education experience is supervised by a faculty member and an agency/organization supervisor.
Prerequisites: PERL 225, department chairperson's approval.

PERL 390
INDEPENDENT STUDY IN RECREATION, PARKS AND LEISURE 1.0-3.0
Independent study in area of student need and/or interest pertinent to recreation, parks and leisure. Interested students must present detailed written proposal to the department chairperson for approval and determination of credit allocation. Sophomore, junior, senior standing.

PERL 430
MANAGEMENT OF RECREATION AND LEISURE SERVICES 4.0
Managerial techniques and methods pertaining to the delivery of recreation and leisure services. Topics include leadership and problem solving skills, organizational structure, personnel management and legal issues.
Prerequisite: PERL 225, majors only.

PERL 437
SENIOR SEMINAR 2.0
Examination and analysis of student preparation for field work and entry into the recreation and park profession. Formal application and placement of field work students.
Prerequisites: Majors only, minimum 2.45 cumulative grade point average at MSC.

PERL 489
INTERNSHIP 12.0
Directed full-time professional supervisory experiences in an approved recreation, parks or leisure delivery system. Emphasis on individual development in program planning, conduct and evaluation, budget and finance, legal aspects, community and public relations. For Recreation and Leisure Studies majors only.
Prerequisites: 2.45 GPA at MSC, PERL 437 and department chairperson's approval.



PHYSICS AND GEOSCIENCE

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Chairperson: Richard Hodson

The Physics-Geoscience department consists of two separate areas of emphasis, each having its own expertise, majors, and programs within one administrative structure. The department offers separate major and minor programs in geoscience and in physics, plus teacher certification. Minors offered in either physics or geoscience are especially useful to students specializing in computer science or applied mathematics.

Part of the Physics-Geoscience department tradition is that a professor works with classes in the laboratory, not a graduate teaching assistant. This, plus a favorable student-faculty ratio, allows personal contact between student and professor. One is free to consult professors about course material for guidance or just to exchange ideas.

All programs are designed to provide substantial well-rounded preparation for students planning to enter graduate school, research, industry, or teaching.

Students entering this department should have an exposure to biology, chemistry and physics, plus three years of college preparatory mathematics. The physics major should have four years of college preparatory mathematics.

Geoscience Major

Required Courses

		Semester Hours
GEOS 112	Physical Geology	4
GEOS 114	Historical Geology	4
GEOS 431	Invertebrate Paleobiology	4
GEOS 434	Stratigraphy	4
GEOS 443	Mineralogy	4
GEOS 444	Petrology	4
GEOS 472	Structural Geology	3

Collateral Courses

CHEM 120, 121	General Chemistry I, II	4 ea.
Select two of the following in mathematics:		
MATH 115	Precalculus Math	3
MATH 116	Calculus A	4
OR		
MATH 122	Calculus I	4
MATH 221	Calculus II	4
Select one of the following sequences in physics:		
PHYS 191, 192	General Physics I, II	4 ea.
PHYS 193, 194	College Physics I, II	4 ea.
Recommended in addition to the above:		
CMPT 183	Foundation of Computer Science I	3
MATH 109	Statistics	3

Electives (Departmental)

The geoscience major is required to take 11 semester hours in geoscience major electives applying the following guidelines 11

Group I—One of the following courses:		
PHYS 280	Astronomy	4
GEOS 360	Oceanography	3
GEOS 457	Meteorology	4
Group II—One of the following courses:		
GEOS 250	Map Reading and Cartography	3
GEOS 310	Economic Geology	3
GEOS 410	Geology of New Jersey	3

Select additional courses from the appropriate list to be obtained from the department.

Geoscience Minor

Required Courses

		Semester Hours
GEOS 112	Physical Geology	4
GEOS 114	Historical Geology	4
Select one of the following two sequences:		
GEOS 431	Invertebrate Paleobiology	4
GEOS 434	Stratigraphy	4
OR		
GEOS 443	Mineralogy	4
GEOS 444	Petrology	4

Electives (Departmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Physics Major

Required Courses

		Semester Hours
PHYS 191, 192	General Physics I, II	4 ea.
PHYS 210	Mechanics	4
PHYS 240	Electricity and Magnetism	4
PHYS 350	Optics	4
PHYS 460	Modern Physics	4

Collateral Courses

CHEM 120, 121	General Chemistry I, II	4 ea.
CMPT 183	Foundations of Computer Science I	3
MATH 122	Calculus I	4
MATH 221	Calculus II	4
MATH 222	Calculus III	4
MATH 420	Differential Equations	3

Electives (Departmental)

Select 14 semester hours from the appropriate list to be obtained from the department 14

Physics Minor

Required Courses

PHYS 191, 192	General Physics I, II	4 ea.
PHYS 240	Electricity and Magnetism	4
Plus either Option A or Option B:		
Option A		
PHYS 210	Mechanics	4
PHYS	Physics elective	3
Option B		
Select two		
PHYS 242	Circuit Theory	3
PHYS 245	Electronics and Digital Techniques	3
PHYS 247	Microprocessors and Their Applications	3
Total Semester Hours		**18-19**

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. Geoscience majors qualify for the New Jersey Earth Science Teaching Certificate, while physics majors qualify for the Physical Science Teaching Certificate.

Second Teaching Field in Geoscience

An approved program of at least 30 semester hours and satisfactory completion of The National Teacher Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education and the Physics and Geoscience Department.

Second Teaching Field in Physical Science

An approved program of at least 30 semester hours and satisfactory completion of The National Teacher Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education and the Physics and Geoscience Department.

Courses of Instruction

GEGN 100
CONCEPTS IN SCIENCE 4.0
This is a one-semester physical science course with laboratory designed for those students not majoring in science areas. This course will introduce the student to methods of science while teaching some principles of physical science and some of their applications. Topics discussed include: energy and motion; heat, energy and solar heating; sound and noise; light, lenses and fiber optics. (3 hr lecture, 2 hr laboratory). Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

GEGN 104
HISTORY OF SCIENCE 3.0
The historical and philosophical development of science traced from the ancient Egyptians to the present. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 105
SCIENCE OF SOUND 4.0
The physical principles of acoustics applied to the production of music and speech. Architectural acoustics and electronic sound reproduction. Level suitable for non-science majors. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

GEGN 107
PLANET EARTH 4.0
An introduction to the physical characteristics of planet earth. Utilizing satellite information, aerial photographs and various types of maps and charts, this course provides background for an understanding of the basic interrelationships of the earth's atmosphere, lithosphere and hydrosphere. The human impact on earth systems is also developed and maintained in perspective. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

GEGN 108
PRINCIPLES OF GEOLOGY 3.0
Geologic materials and processes. Origin and development of the earth throughout geologic time. Evolution of life as interpreted through the study of fossils. Not open to geoscience majors or to those who have taken Physical Geology. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 110
NATURAL DISASTERS 3.0
The study of natural disasters such as volcanic activity, earthquakes and hurricanes: the causes, effects and means of predicting, preventing and minimizing the effects of disasters will be discussed. The relationships between man and his sometimes hostile habitat will be included. Not open to geoscience majors. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 157
UNDERSTANDING THE WEATHER 3.0
This course is designed to examine the earth's weather through lectures, demonstrations, observations, and recording of meteorological phenomena. Major emphasis is placed on thermodynamic processes within the atmosphere as they affect primary pressure/wind patterns, synoptic meteorology, and local weather characteristics. Attention is directed toward the physical processes affecting temperature, pressure, wind, humidity, cloudiness, and visibility in order to understand the main characteristics of weather. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 162
GENERAL OCEANOGRAPHY 3.0
A general study of the oceans and methods of modern oceanography including the physical, chemical, geological, and biological aspects of the oceans and their interrelationships. This course is designed for non-science majors. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEGN 180
DESCRIPTIVE ASTRONOMY 3.0
For the general student. A discussion of our place in the universe from ancient ideas to modern data on the moon, planets, comets, stars, galaxies and quasars. The formation and evolution of planets, stars, black holes and the universe as a whole reveal our place in time. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science Only.

GEOS 112
PHYSICAL GEOLOGY 4.0
Materials of the earth; landforms and structures; the processes and agents responsible for their formation and modification. Modern tectonic concepts. Topographic and geologic maps. Required field trips. Not open to students who have had Principles of Geology. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

GEOS 114
HISTORICAL GEOLOGY 4.0
Geological history of the earth; the evolution of North America in terms of the changing geography, climate, and plant and animal life as interpreted from the rock and fossil record. Required field trips. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

GEOS 125
EARTH AND THE ENVIRONMENT 4.0
The study of the natural processes of the earth and the effects of human activities on the environment. Earth materials, processes and systems, and the engineering properties of natural materials will be discussed, as well as pollution of soil, water and air. Not open to those who have had Planet Earth, Principles of Geology or Physical Geology. Meets the General Education Requirement - Natural/Physical Sciences, Laboratory or Non-laboratory Science.

GEOS 250
MAP READING AND CARTOGRAPHY 4.0
This course is designed to acquaint students with the characteristics of map computation, design and construction. Historical development of mapping and map reading will be important areas of emphasis. Remote sensing, computer mapping will provide up-to-date procedures. Each student will work toward a map suitable for commercial publication. (3 hours lecture, 2 hours laboratory.)

GEOS 251
AERIAL PHOTOGRAPH INTERPRETATION 3.0
Principles of photogrammetry and the use of aerial photographs as a significant research method to recognize and evaluate earth environments and resources. (2 hours lecture and 2 hours laboratory.)

GEOS 431
INVERTEBRATE PALEOBIOLOGY 4.0
Invertebrate fossils-their classification, morphology, evolution, stratigraphic distribution and paleoecology. Required field trips.
Prerequisites: GEOS 114 or instructor's permission.

GEOS 434
STRATIGRAPHY 4.0
Stratigraphic principles and their application. Case studies of selected regions. Local stratigraphy interpreted through field studies.
Prerequisite: GEOS 431 or instructor's permission.

GEOS 443
MINERALOGY 4.0
Crystallography, internal structure, origin, occurrence, and properties of minerals, laboratory study of common minerals. Required field trips.
Prerequisites: GEOS 112, CHEM 121.

GEOS 444
PETROLOGY 4.0
Description, identification, classification, origin and occurrence of sedimentary, igneous and metamorphic rocks. Laboratory study of the common rocks. Required field trips.
Prerequisite: GEOS 443, or instructor's permission.

GEOS 472
STRUCTURAL GEOLOGY 3.0
Recognition and interpretation of primary and tectonic rock structures. Laboratory work emphasizes the analysis of faults, joints, folds and foliation. Required field trips.
Prerequisite: Geoscience major sequence including GEOS 114, 434, 444 and MATH 122.

GEOS 480
FIELD STUDIES IN GEOSCIENCE 4.0
Use of geologic, meteorologic and oceanographic instruments in field investigations, interpretation of observations and writing a field report. Required field trips.
Prerequisites: Geoscience major sequence, GEOS 472.

GEOS 491
LITERATURE RESEARCH IN GEOSCIENCE 2.0
Each participating student conducts an in-depth library research of a specific problem of his/her interest in geoscience under the guidance of a sponsoring faculty member. The results of the study will be presented in a written research-style report.
Prerequisites: At least 18 hours in geoscience credits beyond GEOS 112, Physical Geology.

GEOS 492
LABORATORY RESEARCH IN GEOSCIENCE 1.0-4.0
Each student conducts individual research on a specific problem in geoscience under the guidance of a sponsoring faculty member. The research may be based on earlier field or literary investigations. The results of the study will be presented in a written research-style report.
Prerequisites: At least 20 hours of geoscience credits beyond GEOS 112, including GEOS 491.

GEOS 494
SELECTED TOPICS IN GEOSCIENCE 1.0-4.0
An in-depth study of a particular topic in geoscience, the specific subject matter of which is not offered regularly in an existing course.

GEOS 495
INDEPENDENT STUDY IN GEOSCIENCE 1.0-4.0
An opportunity for the qualified student to do library and/or laboratory investigation in a field of science of his/her choice under the guidance of a faculty member. The course is conducted exclusively by scheduled individual conferences and reports. Offered on demand; majors only.

PHED 401
THE TEACHING OF SCIENCE IN SECONDARY SCHOOLS 4.0
Considered are the objectives, curriculum, planning, instructional strategies appropriate to science, materials, methods of evaluation, health safety and legal responsibilities in the secondary science program. The use of computers in the science instructional program will also be emphasized.

PHED 460
MARINE SCIENCE EDUCATION 2.0
Selected field experiences and laboratory methods utilized to develop resources from the marine environment to be used in teaching the various disciplines. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: Undergraduate science major sequence including a 400-level oceanography course and a science methods course, or permission of instructor.

PHMS 210
INTRODUCTION TO MARINE SCIENCES 4.0
A field-oriented lower division undergraduate course covering the principal disciplines in the marine sciences. The course is designed for the student to evaluate his interest in the marine science world. Offered at the New Jersey Marine Sciences Consortium.

PHMS 310
OCEANOGRAPHY 3.0
Study of the physical and chemical properties of sea water, oceanic circulation, waves and tides, and estuarine and shoreline processes. Offered at the New Jersey Marine Sciences Consortium.
Prerequisites: Advanced standing in physical or biological sciences.

PHMS 411
PHYSICAL OCEANOGRAPHY 4.0
A survey of modern oceanography and its methods including characteristics of sea water, theories of ocean currents and, in general, applications of biological, geological, physical, meteorological and engineering sciences to the study of the oceans. Offered at the site of the New Jersey Marine Sciences Consortium.
Prerequisite: 1 year calculus, 1 year physics or instructors permission.

PHMS 422
BIOLOGY OF MARINE PLANKTON 2.0
A study of the marine phytoplankton and zooplankton, their collection, analysis and interpretation. Their role in the ecosystem will be stressed as will be their distribution, particularly those of the near shore and estuarine environment. Field trips will be made to coastal New Jersey. Offered at the New Jersey Marine Sciences Consortium.

PHMS 450
MARINE BOTANY 4.0
An introduction to the structure, systematics, physiology and ecology of algae and metaphyta of the marine environment. Emphasis will be placed on the flora of the estuary and tidal marsh. Biology of the associated phytoplankton will be studied. Also offered at the site of New Jersey Marine Sciences Consortium.
Prerequisite: BIOL 120 or instructor's permission.

PHMS 481
COASTAL MARINE GEOLOGY 4.0
A study of the geologic processes concerned with the suprainter, and subtidal areas of the near shore environment. Field studies will emphasize the dynamics of erosion and deposition as well as general sedimentation associated with modification of barrier beaches and other land forms of the New Jersey Shoreline. Offered at the New Jersey Marine Sciences Consortium.
Prerequisite: GEOS 437.

PHMS 483
DYNAMIC BEACH PROCESSES 2.0
Study of the processes and forces involved in material transport within the beach zone. Offered at the New Jersey Marine Sciences Consortium.
Prerequisites: GEOS 360, 437 or instructor's permission.

PHMS 484
TIDAL MARSH SEDIMENTATIONS 2.0
Processes involved in sediment transport and deposition within the marsh system. Geologic history of tidal marshes. Offered at New Jersey Marine Sciences Consortium.
Prerequisites: GEOS 437, advanced standing in geoscience.

PHMS 490
FIELD METHODS IN THE MARINE SCIENCES 4.0
The application and techniques of marine sampling, including those of biology, chemistry, geology, meteorology and physics. The nature and role of various pieces of sampling equipment. Field experience at the New Jersey Marine Sciences Consortium. (2 hrs. lecture, 4 hrs. laboratory.)
Prerequisite: Senior standing in science.

PHMS 498
INDEPENDENT STUDY IN THE MARINE SCIENCES 1.0-4.0
Individual research projects will be selected under the guidance of a professor associated with the consortium. Open only to those advanced undergraduate students who have indicated a potential for original thinking. Offered at the New Jersey Marine Sciences Consortium.

PHYS 191
GENERAL PHYSICS I 4.0
This one-semester calculus-based course including laboratory is a study of the principles of physics and some applications to society's problems. Topics covered include mechanics, thermodynamics, fluids, and harmonic motion. (3 hours lecture, 2 hours laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: MATH 122 or concurrently.

PHYS 192
GENERAL PHYSICS II 4.0
Calculus-based course. Study of some principles of physics and some applications to society's problems. Topics include: wave motion, sound and noise pollution, optics, electricity, lasers, nuclear theory, radiation, nuclear reactors, waste disposal. (3 hours lecture, 2 hours laboratory.) Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: MATH 221 or concurrently.

PHYS 193
COLLEGE PHYSICS I 4.0
This one-semester course including laboratory is a study of the principles and applications of classical physics. Topics covered include mechanics, heat and thermodynamics, wave motion and sound, as well as societal applications of physical principles. Three lecture hours and two laboratory hours are required. Calculus is not used, but familiarity with some algebra and trigonometry is required. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

PHYS 194
COLLEGE PHYSICS II 4.0
This one-semester course including laboratory is a study of the principles and applications of classical physics, topics covered include optics, electricity and magnetism, and an introduction to modern and nuclear physics, as well as societal applications of physical principles. Three lecture hours and two laboratory hours are required. Calculus is not used, but familiarity with some algebra and trigonometry is required. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.

PHYS 210
MECHANICS 4.0
Classical mechanics: Kinematics, Newton's laws, impulse and momentum, statics, work and energy, oscillations, general motion, central force motion, non-inertial frames, system of particles, methods of handling data. (3 hours lecture, 2 hours laboratory.)
Prerequisites: PHYS 191, 192, MATH 221 or concurrently.

PHYS 240
ELECTRICITY AND MAGNETISM 4.0
Basic principles of electromagnetism: Coulomb's law and general techniques in electrostatics, currents and their associated magnetic field, electromagnetic induction and magnetic properties of materials. Foundations of Maxwell's equations (without detailed solutions). Laboratory experiments. (3 hr. lecture, 2 hr. laboratory).
Prerequisites: PHYS 192, MATH 222 or concurrently, CMPT 183 or equivalent background.

PHYS 242
CIRCUIT THEORY 3.0
Introduces basic methods in circuit analysis and design. Topics include linear electric circuits and their response, circuit theorems, filters, Fourier analysis of different inputs and outputs, and transmission lines. (2 hr. lecture, 2 hr. laboratory).
Prerequisites: PHYS 192 or 194, MATH 221.

PHYS 245
ELECTRONICS AND DIGITAL CIRCUITS 3.0
An introduction to the principles of amplifiers, waveform generators, and digital circuits, with emphasis on the use of commonly available integrated circuit packages. (2 hr. lecture, 2 hr. laboratory)
Prerequisites: PHYS 192 or 194.

PHYS 247
MICROPROCESSORS AND THEIR APPLICATIONS 3.0
One semester course providing an introduction to the principles, operations and applications of microprocessors including experiment control and data manipulation. (2 hours lecture, 2 hours laboratory.)
Prerequisite: PHYS 192 or 194.

PHYS 280
ASTRONOMY 4.0
Application of physical laws to the earth as a planet; nature of the other planets; orbital motion and space flight; origin of the solar system; the birth, life and death of a star galactic structure; and cosmology. (3 hours lecture, 2 hours laboratory).
Prerequisites: PHYS 191, 192 or 193, 194, MATH 115.

PHYS 310
ADVANCED MECHANICS 3.0
Classical mechanics; transformation, oscillators, generalized motion; Lagrange's equations; Hamilton's equation; small oscillations; wave propagation. Offered alternate years.
Prerequisites: MATH 222, 420; PHYS 210.

PHYS 320
THERMODYNAMICS 3.0
Thermodynamic systems; laws of thermodynamics; entropy; kinetic theory; transport processes; statistical thermodynamics. Offered alternate years.
Prerequisites: MATH 222, PHYS 210 or instructor's permission.

PHYS 340
ADVANCED ELECTRICITY AND MAGNETISM 3.0
Dielectric materials; image calculations; Laplace's equation; magnetic materials and flux; A.C. networks; nonsinusoidal AC; transients and pulses; electromagnetic radiation. Offered alternate years.
Prerequisite: MATH 420 or instructor's permission.

PHYS 350
OPTICS 4.0
Propagation of light, optical components, instruments and photometry. Interference, diffraction and polarization with elements of spectroscopy. Offered alternate years.
Prerequisites: MATH 222, PHYS 240.

PHYS 377
MATHEMATICAL PHYSICS 3.0
Vector analysis, complex variables, ordinary and partial differential equations, matrices. Not offered every year.
Prerequisite: 2 years of physics and MATH 222.

PHYS 410
FLUID MECHANICS 3.0
The study of the mechanics of the continuous media. Topics will include: fluid statics; basic laws governing fluid systems and control volumes; viscous flows; dimensional analysis and sililitude, and potential flow.
Prerequisites: PHYS 210 and MATH 222.

PHYS 460
MODERN PHYSICS 4.0
Special relativity, kinetic theory of matter; quantization of electricity, light and energy; nuclear atom; elementary quantum mechanics and topics on solid state. Offered alternate years.
Prerequisites: PHYS 210, 240, MATH 222.

PHYS 462
NUCLEAR PHYSICS 4.0
Nuclear radiation; radioactive decay; detectors; nuclear spectroscopy and reactions; theories and model; fission, fusion, reactors; and application of radio isotopes. Offered alternate years.
Prerequisites: PHYS 210, 240, MATH 222.

PHYS 464
QUANTUM MECHANICS 3.0
Shroedinger's wave equation, its application and interpretation; Pauli exclusion principle and spectra. Offered alternate years.
Prerequisites: MATH 222, PHYS 460, 464.

PHYS 470
SOLID STATE PHYSICS 3.0
Properties of solid state matter are developed from the quantum mechanics of atoms and molecules. Not offered every year.
Prerequisites: MATH 222, PHYS 460.

PHYS 490
LITERATURE RESEARCH IN PHYSICS 2.0
Student considers topics in physics and gains facility in literature research techniques: topics in pure physics or related to physics education. Students intending to enroll in laboratory research in physics should use PHYS 490 to provide the literature research related to his/her laboratory problem. Not offered every year.
Prerequisite: At least 16 credit hours of physics beyond General Physics.

PHYS 495
LABORATORY RESEARCH IN PHYSICS 1.0
Solution of a laboratory problem; research in pure physics or in physics education; written report required. (Not offered every year.)
Prerequisite: At least 16 credit hours of physics beyond General Physics.

POLITICAL SCIENCE

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Opoku Agyeman

Political Science is a branch of the social sciences concerned with the theory and practice of government and politics. There are six areas of interest a student may pursue: Political Thought and Philosophy, American Politics, Comparative Politics, International Relations, Public Administration, and Law.

The department also provides a Public Administration minor in order to give those seeking employment in state or local government the necessary background. It is open to all students.

Graduates in the political science major receive a Bachelor of Arts degree.

Political Science Major

Required Courses

		Semester Hours
POLS 100	Introduction to Politics	3
POLS 101	American Government and Politics	3
POLS 201	Comparative Politics	3
POLS 202	International Relations	3
POLS 408	Development of Political Thought to Machiavelli	3

Electives (Departmental)

Select 15 semester hours from the appropriate list to be obtained from the department 15

Political Science Minor

	Semester Hours
Core Course Requirement	
POLS 100 Introduction to Politics	3
Additional Required Courses	9
(One course must be selected from three of the following areas):	
American Government	
POLS 101 American Government and Politics	3
POLS 304 State and Local Government	3
Comparative Politics	
POLS 201 Comparative Politics	3
POLS 203 Politics of Development and Modernization	3
International Relations	
POLS 202 International Relations	3
POLS 203 International Organizations	3
Political Theory	
POLS 307 American Political Thought	3
POLS 408 Development of Political Thought to Machiavelli	3
Political Science Electives	
Minimum credits required for the Political Science Minor	**18**

Public Administration Minor

Required Courses

		Semester Hours
POLS 101	American Government and Politics	3
POLS 205	Introduction to Public Administration	3

Electives (Departmental)

Select 12 semester hours from the appropriate list to be obtained from the department 12

Courses of Instruction

POLS 100
INTRODUCTION TO POLITICS 3.0
This course analyzes politics from the four main vantage points of the discipline of political science, that is, political theory, comparative politics, international relations and American government. Of special concern is the U.S. Constitution, its classical and English roots, and its development to the present. This course is required for political science majors. Meets the General Education Requirement - Social Science, Topic Course.

POLS 101
AMERICAN GOVERNMENT AND POLITICS 3.0
This course will introduce students to the basic institutions and processes of American politics, and will do so, in part, through a focus on current policy issues. Meets the General Education Requirement - Social Science, Topic Course.

POLS 201
COMPARATIVE POLITICS 3.0
Constitutional principles, governmental institutions and political processes of selected contemporary states. Meets the General Education Requirement - Social Science, Survey Course.

POLS 202
INTERNATIONAL RELATIONS 3.0
Recent and contemporary world politics and the foreign relations and policies of selected states.

POLS 203
INTERNATIONAL ORGANIZATIONS 3.0
Political and administrative institutions of international government with emphasis upon the United Nations and selected regional organizations.

POLS 204
GOVERNMENT AND POLITICS OF AFRICA 3.0
The salient characteristics of government and politics in the independent Black African states, and the way these impinge on developmental efforts therein, are examined. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

POLS 205
INTRODUCTION TO PUBLIC ADMINISTRATION 3.0
Literature and developments in the field of public administration; the federal bureaucracy in the policymaking process.
Prerequisite: POLS 100 or 101 or instructor's permission.

POLS 206
GOVERNMENT AND POLITICS OF CHINA-JAPAN 3.0
Governmental and political development, institutions, and practices in contemporary China-Japan. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

POLS 214
WOMEN IN POLITICS 3.0
The role of women in the functioning of the American political system. Meets the Multicultural Awareness Requirement.

POLS 301
AMERICAN PARTY SYSTEM 3.0
Organization, function and practice of political parties in the U.S.; campaign functions, membership problems, political finance and policy formation practices.
Prerequisite: POLS 100 or 101 or permission of instructor.

POLS 302
PUBLIC OPINION AND PRESSURE GROUPS 3.0
The nature and development of public opinion and pressure groups in the United States and their influence on public policy and political process.
Prerequisites: POLS 100 or 101 or instructor's permission.

POLS 303
POLITICS OF DEVELOPMENT AND MODERNIZATION 3.0
The major contemporary schools of political modernization and development theory; inter-relationship among political, social and economic variables.
Prerequisite: POLS 201.

POLS 304
STATE AND LOCAL GOVERNMENT 3.0
State political systems, including their administrative and local sub-systems; federal-state and inter-state relations; the political institutions of New Jersey.
Prerequisite: POLS 100 or 101 or instructor's permission.

POLS 306
CAMPAIGN POLITICS 3.0
This course is taught in election years and provides the student with field experience at the local precinct or party level.
Prerequisite: POLS 100 or 101.

POLS 307
AMERICAN POLITICAL THOUGHT 3.0
The development of American ideas covering political authority from Hamilton, Madison and Marshall to the present.
Prerequisite: POLS 100 or 101 or instructor's permission.

POLS 308
ETHNIC POLITICS IN AMERICA 3.0
The political behavior of American ethnic groups from the Puritans to the Puerto Ricans. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: POLS 100 or 101 or instructor's permission.

POLS 309
URBAN POLITICS 3.0
The policies, processes, inter-relationships and organization of governments in heavily-populated areas of the United States.

POLS 310
PUBLIC PERSONNEL ADMINISTRATION 3.0
The problems and processes in the U.S. of public personnel administration at the state and local level.
Prerequisites: POLS 101, 205 or instructor's permission.

POLS 311
GOVERNMENTAL BUDGETING 3.0
The budgetary process in governmental agencies from the perspective of political demands and influences.
Prerequisites: POLS 101, 205.

POLS 312
BLACK POLITICS IN AMERICA 3.0
Black participation in the American political system from the Colonial period to the present. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

POLS 315
URBAN ADMINISTRATION 3.0
Problems and policy-making in the larger urban or metropolitan complexes.
Prerequisites: POLS 101, 205 or instructor's permission.

POLS 316
CONTEMPORARY WESTERN EUROPEAN POLITICS 3.0
Government and politics of Great Britain, France, West Germany and Italy. Institutions, parties, ideologies and interest groups.

POLS 318
THE AMERICAN PRESIDENCY 3.0
This course will provide a detailed examination of the American presidency. It will allow students who were introduced to the presidency in POLS 101, American Government and Politics, to explore in depth one of the key institutions of the American political system.
Prerequisites: POLS 101 or permission of instructor.

POLS 320
LAW IN SOCIETY CIVIL LAW 3.0
This course will examine the American civil legal system as it affects a variety of our social institutions.

POLS 321
LAW IN SOCIETY: CRIMINAL LAW 3.0
Introduces the student to institutions, processes, and social functions of criminal law.

POLS 322
AMERICAN CONSTITUTIONAL LAW:
THE FEDERAL SYSTEM 3.0
Interpretation of Supreme Court decisions in the areas of the distribution of power within the national government and between the national government and the states.
Prerequisite: POLS 101.

POLS 323
AMERICAN CONSTITUTIONAL LAW:
CIVIL RIGHTS AND LIBERTIES 3.0
The development of the Constitution and the Supreme Court of the United States illustrated through reference to court opinions in civil rights and liberties.

POLS 324
AMERICAN PUBLIC POLICY 3.0
A study of the methods used to analyze public policy and an examination of current public policy issues. Special attention is given to the use of comparative analysis in analyzing American public policies.

POLS 330
AMERICAN FOREIGN POLICY 3.0
A consideration and analysis of the goals that the nation's foreign policy officials seek to attain abroad, the values that give rise to those objectives, and the means or instruments through which they are pursued.
Prerequisite: POLS 202.

POLS 404
GOVERNMENT AND POLITICS OF INDIA AND SOUTH ASIA 3.0
The political experiences and institutions of the Indian subcontinent since 1947: The Republic of India, Pakistan, Ceylon and Bangladesh. Meets the Multicultural Awareness Requirement.
Prerequisite: POLS 201 or instructor's permission.

POLS 405
GOVERNMENT AND POLITICS OF LATIN-AMERICA 3.0
Governmental and political development, organization and practices in the states of Middle America and South America. Meets the Multicultural Awareness Requirement.
Prerequisite: POLS 201 or instructor's permission.

POLS 406
GOVERNMENT AND POLITICS OF THE MIDDLE EAST 3.0
Government and politics in the Arab states, Turkey, Israel and Iran.
Prerequisite: POLS 201 or instructor's permission

POLS 407
GOVERNMENT AND POLITICS OF U.S.S.R. 3.0
The political and institutional organizations of the Soviet Union; contemporary political issues; party and governmental structures.
Prerequisites: POLS 201 or instructor's permission.

POLS 408
DEVELOPMENT OF POLITICAL THOUGHT TO MACHIAVELLI 3.0
Selected major political philosophies from Plato and Aristotle, up to, but not including, Machiavelli.

POLS 409
MODERN POLITICAL THOUGHT 3.0
Selected political philosophers from Machiavelli to the present.

POLS 410
DIRECTED STUDY 3.0-6.0
Juniors and seniors may elect three to six credits of independent study under the direction of a member of the Political Science staff.

POLS 412
GOVERNMENT AND POLITICS IN THE EAST EUROPEAN STATES 3.0
The political and governmental organizations of the communist countries of eastern and central Europe (exclusive of the U.S.S.R.); institutions, practices and ideologies including inter-regional relations.
Prerequisite: POLS 201 or instructor's permission.

POLS 416
SELECTED TOPICS IN POLITICAL SCIENCE 3.0
This course allows the instructor to select a political problem which is either not covered in the curriculum or which deserves more in-depth treatment than is possible in a regular course.

POLS 420
SEMINAR AND INTERNSHIP IN POLITICAL SCIENCE 4.0
In this course students will work as interns for one semester in the office of a N.J. State Legislator, U.S. Congressperson or Senator, or state or federal executive.

POLS 425
POLITICS OF FEDERAL BUREAUCRACY 3.0
In-depth examination of the federal bureaucracy in relationship with national, state and local agencies.
Prerequisite: POLS 101

POLS 426
SEMINAR AND INTERNSHIP IN PUBLIC ADMINISTRATION I 5.0
A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Prerequisite: Instructor's permission.

POLS 427
SEMINAR AND INTERNSHIP IN PUBLIC ADMINISTRATION II 4.0
A one semester public administration field experience in local government. Application must be made directly to the instructor in preceding semester.
Prerequisite: Instructor's permission.

POLS 429
QUANTITATIVE ANALYSIS IN POLITICAL SCIENCE 3.0
The main goal of this course will be to familiarize students with various quantitative methods used in political science research with the aim of giving them the ability to evaluate and criticize such research. A variety of quantitative techniques will be covered, ranging from simple descriptive statistics to Guttman scaling to factor analysis. Students will also be given basic training in how to use canned statistical programs and basic data processing.

POLS 430
INTERNATIONAL LAW 3.0
The nature and place of international law in the conduct of international relations.

POLS 435
SENIOR HONORS SEMINAR 3.0
The course will involve intensive research in a seminar setting for senior political science majors. Students will conduct original research and present reports to meetings of the seminar.
Prerequisites: The course will be open only to senior majors with at least a 3.4 cumulative grade point average in political science.

PSYCHOLOGY

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Chairperson: Saundra

Undergraduate courses in psychology establish a sound basis for later professional or graduate training in psychology. As part of a broad liberal education, they satisfy the needs of students, majors and non-majors, and teach principles and techniques as intellectual tools for work in other social and biological sciences and in professional fields such as social work, journalism, business and law. Courses required for teacher certification in the State of New Jersey, as described in the Teacher Education program, are provided.

In addition to a diverse general psychology program, the department offers a Community Psychology concentration and an Honors Seminar Program, as well as minors in Psychology; and Community Psychology.

Psychology Major

Required Courses

		Semester Hours
PSYC 101	General Psychology I: Growth and Development	3
PSYC 203	General Psychology II: An Experimental Approach	3
PSYC 220	Quantitative Methods in Psychology	4
PSYC 301	Experimental Psychology	4

Electives (Departmental)

Select 24 semester hours from the appropriate list to be obtained from the department 24

Concentration Program Within the Major

Community Psychology

Required Courses

		Semester Hours
PSYC 101	General Psychology I: Growth and Development	3
PSYC 203	General Psychology II: An Experimental Approach	3
PSYC 220	Quantitative Methods in Psychology	4

Specialization

PCOM 245	Introduction to Community Psychology	3
PCOM 385	Advanced Community Psychology	3
PCOM 387	Methods in Evaluation Research	4
PCOM 391	Cooperative Education in Psychology	4-9

Electives (Departmental)

		Semester Hours
PSYC 201	Child Psychology	3
PSYC 202	Adolescent Psychology	3
PSYC 225	Psychology Adjustment	3
PSYC 227	Psychological Aspects of Human Sexuality	3
PSYC 230	Environmental Psychology	3
PSYC 231	Psychology of Aggression	3
PSYC 235	Psychology of Exceptional Children and Youth	3
PSYC 260	Social Psychology	3
PSYC 265	Psychology of Women	3
PSYC 268	Psychological Aspects of Aging	3
PSYC 305	Physiological Psychology	3
PSYC 310	Introduction to Psychological Testing	3
PSYC 341	Psychological Aspects of Consumer Behavior	3
PSYC 365	Abnormal Psychology	3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Note: The Community Psychology concentration requires 32 semester hours of course work and 9 semester hours of applied experience. Check with the department for details.

Community Psychology Minor

Required Courses

		Semester Hours
PSYC 101	General Psychology I: Growth and Development	3
PCOM 245	Introduction to Community Psychology	3
PCOM 385	Advanced Community Psychology	3

Electives (Departmental)

		Semester Hours
PSYC 201	Child Psychology	3
PSYC 202	Adolescent Psychology	3
PSYC 225	Psychology of Adjustment	3
PSYC 227	Psychological Aspects of Human Sexuality	3
PSYC 230	Environmental Psychology	3
PSYC 231	Psychology of Aggression	3
PSYC 235	Psychology of Exceptional Children and Youth	3
PSYC 260	Social Psychology	3
PSYC 265	Psychology of Women	3
PSYC 268	Psychological Aspects of Aging	3
PSYC 305	Physiological Psychology	3
PSYC 310	Introduction to Psychological Testing	3
PSYC 332	Psychological Foundations of Personality	3
PSYC 341	Psychological Aspects of Consumer Behavior	3
PSYC 365	Abnormal Psychology	3

Electives (Interdepartmental)

Select 3 semester hours from the appropriate list to be obtained from the department 3

Note: The Community Psychology Minor requires 21 semester hours of course work. Check with the department for details.

General Psychology Minor

Required Courses

PSYC 101	General Psychology I: Growth and Development	3
PSYC 203	General Psychology II: An Experimental Approach	3

Electives (Departmental—300 level or above)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Electives (Departmental-general)

Select 6 semester hours from the appropriate list to be obtained from the department 6

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog.

Departmental course requirements include 30 semester hours of social science courses. Consult with an advisor for further information.

Courses of Instruction

PCOM 245
INTRODUCTION TO COMMUNITY PSYCHOLOGY 3.0
Integration of social psychology with mental health in the resolution of problems in the community. Social psychological theories and empirical strategies used to study the dynamics of power, membership, change and deviance. Accent also on comprehensive mental health center and roles of community psychologist. Meets the General Education Requirement - Contemporary Issues.
Prerequisite: PSYC 101.

PCOM 385
ADVANCED COMMUNITY PSYCHOLOGY: EXTERNSHIP 3.0
Supervision is provided in a variety of community action programs which have preventive as well as treatment goals. Day and hour assignments can usually be arranged, but effective study participation will require a 3 hour block of time in order to serve directly in a community setting.
Prerequisites: PSYC 101, PCOM 245 or instructor's permission.

PCOM 387
METHODS IN EVALUATION RESEARCH 4.0
This course focuses on the application of psychological research methods and knowledge to the evaluation of the effectiveness or ineffectiveness of community programs. Emphasis will be on techniques for program planning and for constructive innovations in community settings.
Prerequisites: PSYC 220, majors only, PCOM 245, instructor's permission, PCOM 385, field work required.

PCOM 391
COOPERATIVE EDUCATION IN PSYCHOLOGY 4.0-9.0
The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The co-op term is a semester off-campus, during which a student is supervised by a faculty coordinator and the office of cooperative education, and is responsible for completing the terms of a learning contract.
Prerequisite: Junior status.

PSYC 100
RE-ENTRY SEMINAR 2.0
Provides academic, career, and personal counseling during first semester adjustment period, group identification and support while developing renewed skills and ego strength. Offered only on a pass/fail basis.

PSYC 101
GENERAL PSYCHOLOGY I: GROWTH AND DEVELOPMENT 3.0
Psychology as an applied behavioral science; human development, conflict and adjustment, social behavior, group processes, individual differences, personality theory and assessment, behavior disorders, and principles of conditioning, learning and forgetting. Meets the General Education Requirement - Social Science, Survey Course.

PSYC 102
WOMEN'S WORLDS 3.0
This course introduces the general student to the broad and interdisciplinary field known as women's studies. It is designed to make students aware of the new discoveries in feminist research and to focus on many aspects of the female experience. The course is designed to help students understand different methodologies in diverse disciplines and to treat areas such as literature, history, psychology, and the arts through a thematic approach. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement. Cross-listed with Women's Studies under WMST 102.

PSYC 103
FRESHMAN SEMINAR 3.0
Major objective is to better acclimate the beginning college student (freshman and transfer) to campus life through an emphasis on affective education and group interaction. Values clarification and self identity are important course components. Meets the General Education Requirement Electives - Personal/ Professional Issues.

PSYC 105
THE PSYCHOLOGICAL STUDY OF SOCIAL ISSUES 3.0
This course surveys the broad range of social problems which may be illuminated by psychological analysis. It is designed to demonstrate at an introductory level the methods by which psychologists gather evidence about social issues. It will focus on techniques that can be used beyond the laboratory and show the relationship between theoretical perspectives and applications to real life. Meets the General Education Requirement - Social Science, Topic Course.

PSYC 109
THE HUMAN ENVIRONMENT 3.0
Interdisciplinary with geography; people's modification and understanding of the environment; future human and environmental projections. Meets the General Education Requirement - Contemporary Issues.

PSYC 200
EDUCATIONAL PSYCHOLOGY 3.0
Required for teaching. Child and adolescent development; fundamentals of learning theory as applied to classroom situations, learning inhibition and academic non-achievement, personal-social adjustment, measuring and evaluating teaching-learning, creativity. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: PSYC 101.

PSYC 201
CHILD PSYCHOLOGY 3.0
Growth, development and behavior of children. Physical, intellectual, social and emotional development and their interaction. Scientific method exemplified through the literature and intensive study of individual children. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: PSYC 101.

PSYC 202
ADOLESCENT PSYCHOLOGY 3.0
Biological, psychological and social factors that shape the transition from childhood to adulthood. Normal and deviant patterns of development in morals, intellect, emotions and judgment. Problems of adolescents with practical application to oneself and others. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: PSYC 101.

PSYC 203
GENERAL PSYCHOLOGY II: AN EXPERIMENTAL APPROACH 3.0
Emphasis on psychology as an experimental and research oriented science. Topics under investigation include: experimental design, psychological measurement, physiology, perception, sensory processes, motivation, emotional behavior, and advanced topics in psychological learning theory.
Prerequisite: PSYC 101.

PSYC 220
QUANTITATIVE METHODS IN PSYCHOLOGY 4.0
This course introduces psychology majors to the basic principles of descriptive statistics, statistical inference, hypothesis testing, and their applications to research and psychological data. Measures of central tendency, variability, correlation, the normal curve, and parametric and nonparametric tests of significance will be covered. Students become familiar with the use of packaged programs for statistical analysis on small computers for the purpose of dealing with the typical data analysis problems that arise in Experimental Psychology, PSYC 301.
Prerequisite: PSYC 101.

PSYC 225
PSYCHOLOGY OF ADJUSTMENT 3.0
Individual and social adjustment. Typical varieties of adjustive behavior illustrated by practical examples. Factors which facilitate or impede man's adaptation to life situations such as work, marriage, disability, etc. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: PSYC 101.

PSYC 227
PSYCHOLOGICAL ASPECTS OF HUMAN SEXUALITY 3.0
Behavior and attitudes influenced by basic sexuality; widens perspectives to aid in decision-making. Developmental periods and sexual relationships; connections between psychological theory and sexual mores; genetic understandings.
Prerequisite: PSYC 101.

PSYC 230
ENVIRONMENTAL PSYCHOLOGY 3.0
The influence of the physical environment on the behavior of organisms: population growth and regulation; crowding; sensory experience, enrichment and deprivation; motivational force of environmental stimulation; adaptation to environment as a function of prolonged exposure, salutary effects of aesthetically pleasing stimulation.
Prerequisite: PSYC 101, permission instructor.

PSYC 231
PSYCHOLOGY OF AGGRESSION 3.0
The root causes of violence in America will be examined through case studies, (the protest-movement of the 1960's, sexual and physical abuse, violent-criminal activity, etc.) and familiarization with biochemical psychological and socio-cultural research into causes and effects of aggression and violence. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement.
Prerequisite: PSYC 101.

PSYC 233
PSYCHOLOGY OF THE GIFTED 3.0
Survey of the recent literature on gifted children along with the special problems they face in their adjustment. Special attention on the discovery and cultivation of creativity.
Prerequisite: PSYC 101, 201 or 203.

PSYC 235
PSYCHOLOGY OF EXCEPTIONAL CHILDREN AND YOUTH 3.0
Surveys, current practices and problems of exceptional children and youth. Explores the unique needs of individuals with handicaps that involve intellectual, sensory, motor, neurological, social and emotional origins. Utilizes analysis of case materials for theoretical and practical applications to the psychology of exceptionality.
Prerequisite: PSYC 101.

PSYC 240
INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3.0
Application of psychological principles and practices in business and industry, problems of communication, group dynamics, man-machine relations, employee attitudes, accident prevention, industrial job selection techniques, motivation, executive leadership. Commonly used selection tests will be evaluated.
Prerequisite: PSYC 101.

PSYC 246
PSYCHOLOGY OF THE BLACK EXPERIENCE 3.0
Historical impact of scientific and institutional racism on the psychological study of blacks. Survey and critical analysis of traditional European approaches with non-traditional methods for comparison. Future development and advancement of a black psychology considered. Meets the General Education Requirement - Social Science, Survey Course. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirements.
Prerequisite: PSYC 101.

PSYC 248
PSYCHOLOGY AND LAW 3.0
Law and psychology share a common focus: the understanding, prediction and regulation of human behavior. Despite this commonality of interest, different emphasis on these elements and a different mandate have frequently hindered active communication and collaboration between the disciplines. The purpose of this course is to present the common ground of law and psychology, and show how they contribute to each other.
Prerequisites: Majors only and PSYC 101.

PSYC 255
PROBLEMS OF PERFORMANCE 3.0
Development of techniques needed for success in public appearances involving music, theatre, speech, etc., resolving such problems as stage fright, memory loss, pre-performance anxiety, attaining self-understanding and confidence using techniques of Havas, Berne, Horrigol, Weekes, Alexander, others. Guest performers. Open to all majors. This course is cross listed with MUPR 255.

PSYC 260
SOCIAL PSYCHOLOGY 3.0
Focus on social behavior of the individual and the group, social perception, motivation, and learning; attitudes and values; development and dynamics of social groups; inter-group tension and prejudice; mass phenomena; psychological approaches to social issues.
Prerequisite: PSYC 101.

PSYC 265
PSYCHOLOGY OF WOMEN 3.0
The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined. Meets the General Education Requirement - Social Science, Topic Course. Meets the Multicultural Awareness Requirement.
Prerequisite: 6 s.h. in psychology.

PSYC 268
PSYCHOLOGICAL ASPECTS OF AGING 3.0
Overview of later maturity and aging. Emphasis on psychological, physiological and sociological aspects. Aging and the cognitive process. Mental health, death, adjustment problems, needs, issues.
Prerequisite: PSYC 101.

PSYC 300
THE TEACHING OF PSYCHOLOGY 3.0
This course covers the objectives, content, procedures and evaluation of teaching psychology. Topics include organization of classroom activities, lesson planning, techniques of motivation, use of multisensory aids, applications of principles of learning, and tests and measurements. Observation and participation in classroom activities and preparation for student teaching are coordinated with this course.
Prerequisites: Majors only and instructor's permission.

PSYC 301
EXPERIMENTAL PSYCHOLOGY 4.0
Introduction to laboratory methods of research in areas such as motivation, perception and learning. Emphasis is on design and execution of exploratory investigations. (3 hr lecture, 3 hr laboratory)
Prerequisite: PSYC 220.

PSYC 302
HEALTH PSYCHOLOGY 3.0
The theoretical, empirical and clinical aspects of health psychology will be presented. The relation of health psychology with other areas of psychology and other scientific disciplines will be discussed. The historical developments of the field, its research methodologies, theoretical models and exemplary interventions will be described.
Prerequisite: PSYC 203.

PSYC 305
PHYSIOLOGICAL PSYCHOLOGY 3.0
Anatomical, neural and biochemical bases of behavior are studied. Topics include localization of function, neurohormonal interaction, sensory and motor functioning, emotions, the relationship of neurophysiological processes and personality.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 308
PERCEPTION 3.0
The theory and procedure of perceptual research. Theoretical approaches reviewed; modern psychophysical and perceptual research. Traditional problems of perception constancies of size and color brightness.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 310
INTRODUCTION TO PSYCHOLOGICAL TESTING 3.0
Tests of intelligence, aptitude, achievement and personality; principles of psychological testing; approaches to test construction.
Prerequisite: PSYC 220.

PSYC 313
COGNITION 3.0
The study of the acquisition, storage, retrieval, and use of knowledge, utilizing behavioral, observational, and computer modeling methods.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 322
EXPERIMENTAL ANALYSIS OF HUMAN BEHAVIOR 4.0
Explores applications of operant conditioning methods to practical human problems. Through study and laboratory exercises and experiments. Applications may include increasing and decreasing frequency, successive approximations, and teaching of complex behaviors through discrimination, fading, and chaining procedures. Applications primarily to handicapped children and adults. Two lecture and four laboratory hours.
Prerequisite: PSYC 203.

PSYC 332
PSYCHOLOGICAL FOUNDATIONS OF PERSONALITY 3.0
Current approaches and theories of personality development and organization.
Prerequisite: PSYC 203.

PSYC 340
HUMAN LEARNING AND MEMORY 3.0
Research, language and methods of learning theory. Classical and operant conditioning, complex habits, remembering and forgetting, transfer of training, cognition and behavior modification. Review of animal research but primary emphasis is on man.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 341
PSYCHOLOGICAL ASPECTS OF CONSUMER BEHAVIOR 3.0
Applications of the science of psychology to consumerism, consumer protection, questionnaire construction and opinion surveys, marketing and advertising.
Prerequisite: PSYC 220.

PSYC 345
MENTAL HEALTH ISSUES OF HISPANIC AMERICANS 3.0
A lecture-type course focusing on the personal, social, institutional and cultural forces that affect the mental health of Americans of Spanish descent. The course will cover issues such as the measurement of psychological functions, bilingualism, personal values and belief systems, the dynamics of the family and acculturation. A midterm and a final exam as well as a research paper will be required from students. Meets the Multicultural Awareness Requirement.

PSYC 348
PSYCHOLINGUISTICS 3.0
The study of language through linguistic, behavioral and cognitive methods. Basic linguistic ideas used for the explication of problems in grammar, cognitive structure, meaning, and speech production and comprehension.
Prerequisite: PSYC 203 or instructor's permission.

PSYC 353
COMPARATIVE ANIMAL BEHAVIOR 3.0
The student will explore experimental and field studies of behavior in a few selected animal species with particular reference to the behavior of vertebrates. The program will involve detailed study of instinctive behavior and imprinting, respondent and operant behavior with emphasis upon the procedures and variables concerned with the acquisition of new forms of behavior.
Prerequisites: PSYC 203 or instructor's permission.

PSYC 355
MOTIVATION 3.0
The concepts of instincts, homeostasis, drive, reinforcement, arousal and inception are analyzed with reference to data drawn from many areas of experimentation; primary emphasis on the experimental, rather than the theoretical literature: motivational concepts relevant to human and animal research.
Prerequisites: PSYC 203 and 6 additional hours in psychology.

PSYC 358
FUNDAMENTALS OF CONDITIONING AND LEARNING 3.0
Major theoretical problems and theories of learning are considered. Includes experimental analysis of basic phenomena of conditioning and learning, studied primarily through experimental studies of infra-human organisms. Students may study selected topics more extensively.
Prerequisites: PSYC 203 and instructor's permission.

PSYC 360
HISTORY AND SYSTEMS OF PSYCHOLOGY 3.0
Historical development of psychology; comparative analysis of the major schools of contemporary psychology; new trends and movements in psychological theory.
Prerequisites: PSYC 203 and 6 additional semester hours in psychology.

PSYC 365
ABNORMAL PSYCHOLOGY 3.0
Overview of psychopathological processes. Neuroses, psychoses, and characterological disorders. Feeling, thinking and behavioral aspects during the life span. Diagnostic and treatment procedures.
Prerequisites: PSYC 203 and 225 or 332.

PSYC 373
PSYCHOLOGY AND LITERATURE 3.0
Terminology and techniques of modern depth psychologies - Freudian, Jungian, Adlerian - to illuminate the literary portrayal of human character in masterpieces of world literature. Study organized into themes such as the quests for selfhood, the alienated individual, love and marriage, parents and children.
Prerequisite: 6 semester hours in psychology or English.

PSYC 400
SEMINARS IN PSYCHOLOGY 3.0-4.0
Intensive study on topics related to student and instructor interest. Forum for instructor specialization and small group interaction. Advanced students only.

PSYC 402
SOCIAL ROLE OF PSYCHOTHERAPIES 3.0
The effects of various psycho/therapies upon society, social institutions and social relationships. Impact of classical Freudian therapy, behaviorism, group and encounter movements.
Prerequisites: Two courses in psychology.

PSYC 405
PSYCHOLOGICAL ANTHROPOLOGY 3.0
Transcultural focus on the inter-related nature of culture and human behavior. Team taught interdisciplinary course with emphasis on mutual dependencies of psychological and anthropological theory and method. Students work with bicultural informants. Cross-listed with anthropology, ANTH 405.
Prerequisite: PSYC 101 or ANTH 100.

PSYC 420
PACKAGED COMPUTER PROGRAMS FOR PSYCHOLOGY 1.0
An introduction to the use of statistical packages in the computer for the purpose of doing extensive statistical analyses of data. One such package will be reviewed thoroughly among DATATEXT, SPSS, SAS, BIO-MED. Principles of coding and keypunching will also be presented.

PSYC 442
CURRICULUM AND METHODS IN SEX EDUCATION 3.0
Developing curricula to fit individual schools; implementation demonstrated; current texts and audio-visual materials analyzed.
Prerequisite: Permission of instructor.

PSYC 459
SPECIAL TOPICS IN PSYCHOLOGY 3.0
In-depth view of important theoretical and methodological issues in a specific area of psychology. The area to be covered is chosen by the instructor. The course permits the instructor and students to examine psychological issues which are either not covered in the curriculum or which deserve more in-depth treatment than is possible in a regular course. The course may be taken no more than twice as part of major or minor degree requirements in psychology.
Prerequisites: Junior standing and instructor's permission.

PSYC 463
PSYCHOLOGICAL FOUNDATIONS OF MUSIC I 2.0
Emotional correlates of the musical experience are explored through research findings, psychological testing and inquiry, and philosophy. The implications of current theories applied to practice in music therapy, education, and performance are discussed. This course is cross listed with MUTH 463.

PSYC 464
PSYCHOLOGICAL FOUNDATIONS OF MUSIC II 2.0
The basic literature concerning psychological research in music is reviewed, with emphasis on experimental research techniques and interpretation of data. The implications of research for music therapy, education, and performance are discussed. This course is cross listed with MUTH 464.

PSYC 470
CHILDREN'S RIGHTS AND CHILD ADVOCACY 3.0
The review and evaluation of the rights, privileges, and responsibilities of young citizens (preschool through adolescence); the process and goals of advocacy; the community services available to and lacking for the optimum development to maturity of young citizens. Psychology, education, sociology, mental health, law enforcement, medicine are domains of study and investigation.
Prerequisites: Junior standing and instructor's permission.

PSYC 491
INDEPENDENT STUDY I: RESEARCH 1.0-3.0
Individual research project under supervision of a professor in the department.
Prerequisite: Permission of instructor.

PSYC 492
INDEPENDENT STUDY II: RESEARCH 1.0-3.0
Individual project under supervision of a professor in the department.
Prerequisite: Instructor's permission.

READING AND EDUCATIONAL MEDIA

SCHOOL OF PROFESSIONAL STUDIES
Chairperson: Joy Stone

The Department of Reading and Educational Media prepares professionals for leadership roles in various institutional contexts and provides support services to the campus and community. The department also offers an M.A. in Reading, and course work leading to certification for Reading Teacher, Reading Specialist, Associate Media Specialist and Media Specialist.

Reading Program

The Reading Program encompasses several major areas at the undergraduate level. These areas include a reading course fulfilling the general education requirements, nine semester hours in the teaching of reading and critical thinking for students enrolled in teacher education programs, a reading minor, and personal reading improvement such as study skills and speed reading.

The course READ 105 Reading: Communicating Through Text fulfills a general education requirement for full-time freshmen and part-time students. The courses designed to meet initial certification for teacher education majors are READ 407 Reading: Theory and Process, READ 408 Reading: The Content Areas, and READ 409 Teaching for Critical Thinking (cross-listed with CURR 409 and EDFD 409). A Reading minor of 12 semester hours in related areas is available. Upon completion of the minor, students are eligible for the Reading Teacher Certificate. See advisor for endorsement or certification guidelines in reading.

Students can enhance their personal reading improvement and study skills by enrolling in READ 102 College Reading and Study Skills Improvement and/or READ 300 Speed Reading for Academic and Professional Development.

For all students who must meet their basic reading skills requirement, the Reading program offers a three-semester-hour non-additive credit course entitled READ 053 Basic Reading Skills.

The department also offers READ 100 College Learning and Thinking Skills, a course for freshmen in the Program for Academic and Student Support (PASS) to develop the cognitive and affective strengths needed for college success. This course is cross-listed with CURR 100.

Faculty in the Reading and Study Skills Center will advise students regarding academic or personal Reading programs. Tutoring and independent work are also available.

Reading Minor

The course sequence in Reading will be coordinated with the course sequence in the major program. A minimum of 24 semester hours will be required for the completion of the minor.

Required Courses

		Semester Hours
READ 400	Foundations of Reading Instruction*	3
READ 402	Survey of Reading Methods in Secondary Subjects	3
READ 403	Practicum in Reading and the Improvement of Study Skills	3
READ 404	Diagnosis and Treatment of Reading Problems	3
PSYC 235	Psychology of Exceptional Children and Youth (prerequisite)	3

*Prerequisite for all Reading courses.

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Note: College students may take a personal reading improvement program as a service through the Reading and Study Skills Center.

Educational Media

The modern library doesn't just contain printed material; it stores informational media. The Educational Media program provides students with up-to-date course work leading to New Jersey state certification on the graduate level as an Associate Educational Media Specialist or as an Educational Media Specialist. Departmental offerings also include an undergraduate Media course, MEDI 355 Media in Intercultural Communication which fulfills the General Education Requirement in Contemporary Issues.

Requirements for the Associate Educational Media Specialist Certificate

Satisfactory completion of not fewer than 18 semester hours of work as follows: (In exceptional cases appropriate substitutions or changes may be made in these requirements upon approval by the program advisor.)

I. Prerequisites

1. To be determined by departmental advisement in reference to any deficiencies made apparent by New Jersey Standards for Coordination and Development of Educational Media Services for Public Schools.
2. A Bachelor's degree and a curriculum approved for a standard New Jersey Teachers' Certificate, or a Bachelor's degree plus a New Jersey Teacher's Certificate.

II. Specialization in Educational Media

		Semester Hours
MEDI 401	Fundamentals of Cataloging and Classifying Educational Resources	3
MEDI 402	Reference and Bibliography for School Resource Centers	3
MEDI 403	Reading Materials for Children and Youth (Selection and Evaluation)	3
MEDI 500	Media, Technology and Learning in the Curriculum	3
MEDI 520	Production of Materials for Media Technology	3
MEDI 521	Design of Innovative Curriculum Resources	3
MEDI 540	Television Production in Education	3
MEDI 541	Television Programming in Education: Independent Study	3
MEDI 550	Administration and Supervision of Media in Education	3
MEDI 570	Developing Materials for Computer Technology in Training and Education	3
MEDI 610	Research and Development Seminar in Instructional Technology and Resources	3
		Minimum: 18 semester hours
MEDI 615	Supervised Field Experience for Educational Media Certification	3
When field experience is required:		Minimum: 21 semester hours

Courses of Instruction

MEDI 355
MEDIA IN INTERCULTURAL COMMUNICATION 3.0
Offered to develop an awareness of the ways in which media are effective for solving problems of communication in intercultural situations. Cultural and technological factors affecting accuracy and meaning in human expression receive major attention. The ability to identify a communications problem between or among cultures, and select and implement a media remedy is stressed. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

MEDI 401
FUNDAMENTALS OF CATALOGING AND CLASSIFYING EDUCATIONAL RESOURCES 3.0
Covers principles involved in cataloging and classification of print and non-print materials according to established classification schemes. Extensive practice through laboratory experience provided.

MEDI 402
REFERENCE AND BIBLIOGRAPHY FOR SCHOOL RESOURCE CENTERS 3.0
An examination and analysis of basic reference materials with emphasis on those most useful in library resource centers. Encyclopedia, dictionaries, geographical and statistical sources as well as bibliographies are included.

MEDI 403
READING MATERIALS FOR CHILDREN AND YOUTH (SELECTION AND EVALUATIONS) 3.0
A study and evaluation of library materials provided by the modern school media center to meet the needs of youth. Extensive critical reading of books for children and young adults is required. Principles of book selection are emphasized and experience in the use of selection tools is provided. The point of view relates the library collection to the total school program.

READ 053
BASIC READING SKILLS 3.0
An intensive laboratory course for students who must fulfill their minimum basic skills requirement in reading. Non-additive credit. Traditional grading procedures in effect.
Prerequisite: New Jersey College Basic Skills Placement Test.

READ 100
COLLEGE LEARNING AND THINKING SKILLS 3.0
Course is designed to provide freshmen in the student tutorial program with a learning environment in which to develop the cognitive and affective strengths needed for college success. The course offers opportunities to become inquisitive, competent, and confident learners. Cross-listed with Curriculum and Teaching, CURR 100.

READ 102
COLLEGE READING AND STUDY SKILLS IMPROVEMENT 3.0
Workshop for college students whose reading-study problems interfere with school progress. Supervised practice promotes vocabulary growth, flexible speeds, comprehension and recall, skimming, interpretative and critical techniques. Reviewing for examinations, keeping up with daily assignments, taking notes and organizing content.

READ 105
READING: COMMUNICATING THROUGH TEXT 3.0
This course, designed for the general student, will foster a critical understanding of the processes involved in efficient and effective reading. Emphasis will be placed on developing students' life-long reading habits in relation to comprehension, aesthetic sensibilities and analytical skills. Meets the General Education Requirement - Communication, Reading.

READ 301
TUTORING AND SMALL GROUP INSTRUCTION 2.0
Designed to provide tutors, teacher aids, and other personnel with the necessary background of knowledge, skills and understanding to enable them to serve in educational environments in schools, hospitals, prisons, neighborhood youth corps, community action programs, etc. Students enrolled in this course will learn how they can increase the academic performance of the learner; how they can supplement rather than subvert what the instructor in the formal educational environment will do. (Open to undergraduates, volunteers, and personnel from community action programs.) May be taken as an elective or as part of the reading minor.

READ 400
FOUNDATIONS OF READING INSTRUCTION 3.0
Good first teaching of reading is of primary importance. The sequential development of reading skills extend into the junior and senior high schools. Methods and materials currently in use in elementary reading programs are studied with a view toward increasing the power of both the teacher and the learner. How the reading process begins, and how it is reinforced are topics fundamental to all upper grade teachers faced with the problem of continuing reading skills development in curriculum areas. Tutoring experience in nearby elementary schools is required.

READ 403
PRACTICUM IN READING AND THE IMPROVEMENT OF STUDY SKILLS 3.0
The following areas are explored: recent materials and research for teaching and learning; the SQ3R approach; taking examinations; reading and problem solving; memory and concentration; taking and organizing reading notes; and the reading of homework assignments. Students tutor collegians in these areas.

READ 404
DIAGNOSIS AND TREATMENT OF READING PROBLEMS 3.0
Problems of the handicapped; recent materials and research; evaluative and corrective techniques; diagnostic treatment and methodology are covered. An on-going student diagnosis of a school-age child is required.

READ 407
READING: THEORY AND PROCESS 3.0
Designed for classroom and non-classroom personnel whose major responsibility is instructing students. Major focus will be on developing those skills, understandings and competencies in the nature of the reading process in specific word recognition and comprehension strategies, and in classroom diagnostic techniques.
Prerequisite: Junior or senior standing.

READ 408
READING: THE CONTENT AREAS 3.0
Designed to enable content area teachers to understand the developmental nature of the reading process and employ specific techniques to facilitate and improve reading competencies.
Prerequisite: Junior or senior standing.

READ 409
TEACHING FOR CRITICAL THINKING 3.0
Designed for pre-service teachers to foster critical thinking in and about the disciplines they will teach. Emphasis will be placed on the processes of thinking in general, on the nature of critical thinking, on classroom conditions which promote critical thinking, on metacognition, whereby students will be encouraged to be conscious of their own thinking and on methods for assessing the quality of students' thinking. Cross-listed with CURR 409 and EDFD 409.
Prerequisites: Completion of initial field experience, educational psychology and general psychology courses as well as formal admission to the Teacher Education Program.

SOCIOLOGY

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: Laura Kramer

Sociologists deal with varied questions about the social world and the lives of individuals within it. Some areas of concern may be: the way wealth and power affect society, major characteristics of contemporary family life, how individuals organize and influence their everyday social world. Taking sociology courses ensures that the student learns to confront these and other issues.

The Sociology major provides the groundwork for fields such as teaching, crime prevention, social work, law, or social research. There are three minors in Applied Sociology which may be taken in combination with the Sociology major or another major. One minor specializes in the application of sociology to the helping professions (such as social work or the ministry), one minor deals with the application of sociology in work and industry, and one minor applies sociology and other social sciences to the study of Criminal Justice. The minor in Criminal Justice is described in this catalog under Interdisciplinary Minors.

The Sociology Department offers a Bachelor of Arts degree.

Sociology Major

Required Courses

		18 Semester Hours
SOCI 201	Foundations of Sociological Inquiry	4
SOCI 301	Sociological Research Methods I	4
SOCI 313	Sociological Theory: Critical Analysis	3
SOCI 314	Statistics for Social Research	4
SOCI 300	Externship in Sociology	
OR		
SOCI 410	Social Action Practicum	3

Electives (Departmental)

Select 21 semester hours from the appropriate list to be obtained from the department 21
(9 semester hours must be selected from 300 or 400 level courses with appropriate approval.)

Note: It is important to try to meet the methods requirement no later than the junior year.

Applied Sociology Minor

EMPHASIS ON HELPING PROFESSIONS AND INSTITUTIONS

As part of its Applied Sociology program, the Department has an emphasis on helping professions and institutions. It is open to students in all majors who are interested in pursuing careers in the human service field.

Required Courses

		Semester Hours
SOCI 336	The Sociology of Helping Professions and Institutions	3
SOCI 337	Methods and Techniques in the Helping Professions	3
SOCI 300	Externship in Sociology (Supervised Field Work)	3
OR		
SOCI 410	Social Action Practicum (Supervised Field Work)	3

Electives (Departmental)

Select 9 semester hours from the appropriate list to be obtained from the department 9

Special clusters of electives are recommended for students who want expertise in helping professions dealing with the aged.

Applied Sociology Minor

EMPHASIS ON WORK AND INDUSTRY

The Sociology Department's Applied Sociology minor includes a program on work and industry. This minor is open to students in all majors who are interested in applying sociological understanding to the areas of labor relations, professions, industrial and other work settings.

Required Courses

		Semester Hours
SOCI 304	Sociology of Work and Professions	3
SOCI 300	Externship in Sociology	3
OR		
SOCI 410	Social Action Practicum	3
SOCI 414	Selected Topics in Applied Sociology	3
OR		
SOCI 335	Workers and Their Organizations	3

Electives

Select 9 semester hours from the appropriate list to be obtained from the department 9

Note: It is possible to have further field experience by doing a project of your choice and taking SOCI 310 Directed Independent Research as an elective.

Courses of Instruction

SOCI 100
THE SOCIOLOGICAL PERSPECTIVE 3.0
An introduction to the study of human groups from peer groups to families to societies. How and why culture, social structure, and group processes arise. Consequences of social forces for individuals. Meets the General Education Requirement - Social Science, Survey Course.

SOCI 101
CRIMINOLOGY 3.0
Definitions of crime; sociological explanation of crime; the nature and extent of criminal behavior. Analysis of different types of crime, including juvenile delinquency, corporate crime, crimes against women, and crimes by police. Institutions of social control: police, courts, prisons. Meets the General Education Requirement - Social Science, Topic Course.

SOCI 112
SOCIOLOGY OF LEISURE 3.0
Leisure as a social problem, work and leisure, the use of leisure time in modern society.

SOCI 113
SOCIAL PROBLEMS 3.0
How social structure and social institutions are related to problems such as discrimination, environmental pollution, violence, and poverty. Meets the General Education Requirement - Contemporary Issues.

SOCI 200
SOCIOLOGY OF EDUCATION 3.0
The school as an institution of social control and social change. The social organization of schools: social roles of students, teachers and other school personnel. (Not to be used for teacher certification.)

SOCI 201
FOUNDATIONS OF SOCIOLOGICAL INQUIRY 4.0
An introduction to the methods and theory of sociological inquiry. Topics include: comparisons of dominant paradigms of sociological thought, critical analysis of basic concepts in the field, logic and rhetoric of sociological analysis and ethical and value issues in the practice of sociology. Emphasis will also be placed upon writing sociology: documentation, literature search, organization and style.
Prerequisite: ENGL 105.

SOCI 202
RACIAL AND ETHNIC RELATIONS 3.0
The social meaning of race and ethnicity. The social, psychological and structural sources of racism; the consequences of this phenomenon to groups; situation and comparative data. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

SOCI 203
SOCIOLOGY OF ORGANIZED CRIME 3.0
Organized crime as a sociological phenomenon. The methods and goals of large-scale crime and its economic, political and social costs; popular attitudes towards organized crime; efforts of enforcement and investigation agencies to deal with the problem.

SOCI 204
SOCIOLOGY OF THE FAMILY 3.0
Discussion of "official" and "unofficial" (single parent, gay/lesbian) family relationships; compare current U.S. family forms with those of other historical periods and societies; examine trends in contemporary societies affecting family forms such as changing work role of women, changed sexual forms in courtship and recent changes in divorce rate; analyzes issues in the "politics of the family." Meets the General Education Requirement - Social Science, Topic Course.

SOCI 205
BLACK FAMILY 3.0
The black family in American society; historical perspectives and contemporary conflicts surrounding the black family. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

SOCI 206
INDIVIDUAL AND SOCIETY 3.0
The relationship between culture, social structure, various institutions and the individual's social perceptions, sense of self and self-presentation are explored in this course. The structure of small groups is also discussed. Meets the General Education Requirement - Electives Personal/Professional Issues.

SOCI 207
SOCIAL STRUCTURE OF AMERICAN SOCIETY 3.0
Empirical materials on social structure. Inter-institutional relations as the form of the broad, general structure of American society. Meets the General Education Requirement - Social Science, Topic Course.

SOCI 209
SOCIOLOGY OF POVERTY AND WELFARE 3.0
Poverty and welfare institutions as social phenomena. The meaning of poverty, absolute and relative deprivation, the functions of social welfare institutions. Meets the General Education Requirement - Contemporary Issues.

SOCI 211
SOCIOLOGY OF HEALTH AND ILLNESS 3.0
Social and cultural definitions of health and illness, social sources of illness, the social role of the "sick," comparative medical beliefs and practices and medical institutions. Meets the General Education Requirement - Contemporary Issues.

SOCI 212
SOCIOLOGY OF TECHNOLOGY 3.0
Social processes affecting technological innovation and the forms in which an innovation is institutionalized or abandoned. The social consequences and assessment of technological innovations. Meets the General Education Requirement - Contemporary Issues.

SOCI 214
SOCIOLOGY OF CONFLICT AND VIOLENCE 3.0
A multidisciplinary approach to the social sources of conflict and violence; the sociological approach contrasted with biological and other approaches; interpersonal and institutional conflict and violence; the relationship between conflict and violence; types of conflict and violence, war, crime, class conflict and ethnic and racial hostilities. Meets the General Education Requirement - Contemporary Issues.

SOCI 216
SOCIOLOGY OF FOOD AND POPULATION 3.0
This course will examine the ways in which people's food production and consumption patterns are affected by and related to other aspects of their social organization. The interrelationship between food production/consumption patterns, political life, stratification systems, and demography will be examined. The main focus will be a comparison between different forms of social organization with respect to the management of food and population issues. Meets the General Education Requirement - Contemporary Issues.

SOCI 218
SOCIOLOGY OF POPULATION 3.0
Problems of population and demographic change; social foundations and consequences of changes in fertility, mortality, and migration. Population and socio-economic development. The uses of demographic data in planning, policy making, and social research. Meets the General Education Requirement - Contemporary Issues.

SOCI 219
SOCIOLOGY OF AGING 3.0
Aging process from a sociological perspective. Demographic trends, sociological theories, sociocultural factors; aging in different societies and social movements among the elderly.

SOCI 220
SOCIOLOGY OF RICH AND POOR NATIONS 3.0
This course focuses on the interrelationships between development and underdevelopment and upon the division of the world into rich and poor nations. The phenomenon of underdevelopment is analyzed in sociological terms by emphasizing its demographic, stratification, migratory, ideological, educational, family and religious aspects. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

SOCI 300
EXTERNSHIP IN SOCIOLOGY 3.0-9.0
Students will select an institution in the metropolitan area in which to become participant-observers. Application of a sociological perspective to the problems and structure of institutions encouraged through faculty supervision. Multiple semester selection permitted with approval.

SOCI 301
SOCIOLOGICAL RESEARCH METHODS I 4.0
Introduction to primary methods of gathering sociological data: experimentation, survey research, participant observation, etc. Use of computers to analyze data. The formulation of hypotheses, survey design, participant observation and the use of elementary statistics.

SOCI 302
SOCIOLOGICAL RESEARCH METHODS II 3.0
The formulation of hypotheses, survey design, participant observation and the use of elementary statistics; certain broad problems in the philosophy of social science.
Prerequisite: SOCI 301.

SOCI 303
LARGE SCALE ORGANIZATIONS 3.0
The structure and functions of bureaucracy in modern society; the life cycle of large organizations and their methods of operation; selected contemporary problems.

SOCI 304
SOCIOLOGY OF WORK AND PROFESSIONS 3.0
The development of modern focus of work; the shift from manufacturing to service occupations; and problems of work alienation; current models of labor management relations in the U.S. compared to western Europe and Japan; the effects of new technology on skill, employment levels, and on labor management relations; conceptions of the professions and their role in society; the process of an occupation becoming a profession.

SOCI 310
DIRECTED INDEPENDENT RESEARCH 3.0-9.0
Research and report under faculty direction. The student selects, for investigation, an area of sociological concern with the approval of a faculty supervisor. Multiple semester selection permitted with approval.

SOCI 311
URBAN SOCIOLOGY 3.0
Processes of urbanization and suburbanization; nature of urban social relations, including racial and ethnic relations; urban ecological patterns and demographic conditions. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

SOCI 313
SOCIOLOGICAL THEORY: A CRITICAL ANALYSIS 3.0
A comparison of important theories on key themes in sociology; the nature of social interaction, the definition of power, stratification, social control and deviance, alienation and anomie, social structure and function, social bases of knowledge and belief, and social conflict and change.

SOCI 314
STATISTICS FOR SOCIAL RESEARCH 4.0
The use of statistics to summarize data, to show relationships among variables. Evaluating research reports based on statistics. Use of the computer to analyze data.

SOCI 315
SOCIAL STRATIFICATION 3.0
The inequalities of social ranking systems in societies. Theoretical and empirical approaches to stratification delineating the variables of power, power elites, class consciousness, alienation and class mobility. Meets the Multicultural Awareness Requirement.

SOCI 321
WHITE COLLAR CRIME 3.0
An examination of the nature, scope, forms and styles of occupational and business-related criminal activities in the U.S., as well as their social, political and economic implications.

SOCI 322
JUVENILE DELINQUENCY AND JUVENILE JUSTICE 3.0
This course will deal with the major sociological explanations of juvenile delinquency. The relationship between juvenile crime and justice and the socio-economic and institutional arrangements of the larger society will be the primary focus.

SOCI 323
INTRODUCTION TO CRIMINAL JUSTICE 3.0
This course will examine the criminal justice system, and its agencies (police, courts, corrections),and analyze their function in contemporary society. It will focus on the means by which the system serves to reproduce a social order based on the unequal distribution of power, wealth and status; explore gender, race and class bias in the processing and imprisonment of offenders; and determine the system's role in the creation and maintenance of a "criminal" underclass. It will also consider the various subcultural worlds to which agency members, and their clients, belong, and the types of experience on which they are based.

SOCI 330
POLITICAL SOCIOLOGY 3.0
This course will endeavor to give the student a relatively complete understanding of the social dynamics of political actions on various levels.

SOCI 332
SOCIOLOGY OF POPULAR ARTS 3.0
Components of entertainment including paperback and magazine fiction, movies, theatre and popular music; the audiences, content, performers, managers, and owners.

SOCI 334
COMPARATIVE SOCIAL ANALYSIS 3.0
Comparative sociological schemes; the analytical blocks of total society; kinship, family and marriage; policy and bureaucracy; social stratification and mobility; industrialization and urbanizations; belief systems and value orientations.

SOCI 335
WORKERS AND THEIR ORGANIZATIONS 3.0
The course aims to provide the student with a general overview of the nature of work in modern society and of the ways in which workers react to it. In particular, the ways in which workers' organizations develop, and are shaped by community and political forces, will be an important focus.

SOCI 336
THE SOCIOLOGY OF HELPING PROFESSIONS AND INSTITUTIONS 3.0
This course focuses on the social functions, determinants, and consequences of helping professions such as social work, and helping institutions such as public welfare. Particular emphasis is placed on the relations of helping professions and institutions with their socio-political environment and with their clients.

SOCI 337
METHODS AND TECHNIQUES IN THE HELPING PROFESSIONS 3.0
This course focuses on the social processes involved in working with and helping people in such endeavors as social work and in such settings as hospitals. Particular emphasis is placed on understanding the dominant contemporary methods and techniques which are used to provide help to those in need.

SOCI 390
COOPERATIVE EDUCATION IN SOCIOLOGY 8.0
The cooperative education option integrates academic study with a supervised employment experience outside the formal classroom environment. The coop term is a semester off-campus, during which a student is supervised by a faculty coordinator and the office of Cooperative Education and is responsible for completing the terms of a learning contract.

SOCI 402
SOCIAL CONTEXTS OF MENTAL ILLNESS AND TREATMENT 3.0
Social conceptions of mental health and illness; social factors in the causes and treatment of mental illness. Mental institutions—their structures and ideologies. Comparative psychotherapies in social context; mental health personnel and professional ideologies; social movements and mental health and illness.

SOCI 403
SOCIOLOGY OF KNOWLEDGE 3.0
The interaction between the social structure, the ideas, beliefs, technology, and perceptions that prevail in society or in particular groups within society.

SOCI 404
SOCIOLOGY OF RELIGION 3.0
The social bases of religious belief and activity; religious movements, denominationalism, sectarianism, secularization, pluralism, the social bases of belief and unbelief, and cross-cultural and historical comparisons.

SOCI 405
DEVIANCE AND SOCIAL CONTROL 3.0
Theoretical perspectives on human deviance. The social organization of specific types of deviance and of formal and informal social control.

SOCI 406
SOCIOLOGY OF SMALL GROUPS 3.0
Structured along lines of educational self-analytic groups. Students will learn about small group dynamics and interpersonal processes by studying the ongoing interaction of the class as small groups.
Prerequisite: SOCI 206.

SOCI 407
SOCIOLOGY OF THE MASS MEDIA 3.0
Television, press, film and other media—their social organization and how they function. Who the media influence and how. Who influences the media and how.

SOCI 408
SOCIAL MOVEMENTS 3.0
This course focuses on the study of concerted collective behavior for social change, or social movements. Various approaches to the understanding of social movements, including the natural history, case study, and analytical models, will be examined. Emphasis will be placed on relating theoretical work to contemporary empirical examples of social movement activity.

SOCI 410
SOCIAL ACTION PRACTICUM 3.0-9.0
Students, individually or in groups, design and implement field research and activity with an explicit, culturally defined objective, as an exercise in "applied sociology."

SOCI 411
SELECTED TOPICS IN SOCIOLOGICAL THEORY 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to only the general area of sociological theory.

SOCI 412
SELECTED TOPICS IN SOCIOLOGICAL RESEARCH METHODS 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to projects or study in research methodology.

SOCI 413
SELECTED TOPICS IN INSTITUTIONAL PROCESSES 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to a consideration of problems in institutional processes.

SOCI 414
SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0
The area to be covered is chosen by the instructor each semester. The course may be selected more than once with approval. Limited to the application of sociological methodology, theory or content to social situations, or to community issues or problems.

SOCI 420
SOCIOLOGY OF LAW 3.0
The impact of the social usages of law on all levels of operation as an instrument of social policy, social control and social regulation.

SOCI 430
SOCIOLOGY OF GENDER 3.0
The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion; special emphasis is placed on the impact of social change on sex roles in contemporary society. Meets the Multicultural Awareness Requirement.

SPANISH AND ITALIAN

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Chairperson: John A. Zahner

The major programs in Spanish and Italian are designed to help students achieve linguistic fluency, an appreciation of literature and a comprehensive knowledge of cultural history. The Spanish curriculum embraces both Spain and Spanish America, and the Department also offers a minor in Portuguese.

Majors in both Spanish and Italian may elect a program in teacher certification which includes a semester of supervised practice teaching. A "second teaching field" sequence is available for both Spanish and Italian.

A special option in Spanish is a four-course concentration in translating and interpreting which provides a practical background for students preparing for careers in business, law, social service and other areas.

The Department also offers minor sequences in Spanish and Italian. Majors intending to pursue graduate studies are advised to acquire proficiency in at least one additional language. Minors such as Hispanic Community Affairs and Paralegal Studies provide further opportunities for specialized training. Additionally, Cooperative Education internships, providing both college credits and remuneration for supervised work experience, can be arranged for students of Spanish, Italian and Portuguese.

Study Abroad

It is highly recommended that majors spend a year, a semester, a winter or a summer studying in a Spanish or Italian speaking country. This study should preferably be planned for the junior year.

After successful completion of the program, credits will be granted by evaluation.

Spanish Major

Required Courses

		Semester Hours
24 semester hours:		
SPAN 141	Grammar and Composition I	3
SPAN 142	Grammar and Composition II	3
SPAN 151	Masterpieces of Spanish Literature I	3
SPAN 152	Masterpieces of Spanish Literature II	3
SPAN 161	Masterpieces of Spanish-American Literature I	3
SPAN 162	Masterpieces of Spanish-American Literature II	3
SPAN 260	Spanish Cultural History	3
SPAN 270	Spanish-American Cultural History	3

Electives (Major)

Select 12 semester hours with at least two courses from literature and one from language. The literature courses must be at or above the 300 level. Obtain elective list from the department.

Spanish Minor

Required Courses

		Semester Hours
SPAN 141	Grammar and Composition I	3
SPAN 142	Grammar and Composition II	3
SPAN 152	Masterpieces of Spanish Literature II	3
SPAN 162	Masterpieces of Spanish-American Literature II	3
SPAN 260	Spanish Cultural History	3
OR		
SPAN 270	Spanish American Cultural History	3

Electives (Major)

Select 3 semester hours in a literature course.

Total Semester Hours **18**

Teacher Certification

Students wishing teacher certification must be admitted to the Teacher Education Program and follow the professional sequence outlined in this catalog. As part of the professional sequence students must take SPAN 419 The Teaching of Spanish in Secondary Schools.

Required Courses (30 s.h.)

SPAN 141	Spanish Grammar and Composition I	3
SPAN 142	Spanish Grammar and Composition II	3
SPAN 151	Masterpieces of Spanish Literature I	3
SPAN 152	Masterpieces of Spanish Literature II	3
SPAN 161	Masterpieces of Spanish American Literature I	3
SPAN 162	Masterpieces of Spanish American Literature II	3
SPAN 209	Introduction to Phonetics	3
SPAN 260	Spanish Cultural History	3
SPAN 270	Spanish American Cultural History	3
SPAN 410	Advanced Spanish Grammar	3

Elective Courses (6 semester hours)

Minimum of 6 s.h. with at least one course from literature and one from language.

Second Teaching Field in Spanish

An approved program of at least 30 semester hours and satisfactory completion of The National Teacher Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

Required Courses

		Semester Hours
SPAN 141	Grammar and Composition I	3
SPAN 142	Grammar and Composition II	3
SPAN 209	Introduction to Spanish Phonetics	3
SPAN 260	Spanish Cultural History	3
OR		
SPAN 270	Spanish-American Cultural History	3
SPAN 309	Spanish Conversation	3
SPAN 410	Advanced Spanish Grammar	3

Electives (Major)

Select 6 semester hours in literature courses from the appropriate list to be obtained from the department.

Additional requirements may be obtained from the department.

Note: If a student has not studied a methods course in foreign language teaching, it is necessary to take SPAN 419, The Teaching of Spanish in Secondary Schools.

Concentration in Translation

Required Courses

		Semester Hours
SPAN 350	Translating I	3
SPAN 351	Translating II	3
SPAN 452	Translating III	3
SPAN 450	Introduction to Interpreting	3

The concentration in translation is designed to enhance the preparation of Spanish majors who are considering careers in diplomatic service, business, social service or law or who have an interest in literary translation.

Students who have successfully completed Translating III are eligible to take the certification examination given each year in May.

Italian Major

Required Courses

15 Semester hours:

ITAL 141 Italian Grammar and Composition I 3
ITAL 142 Grammar and Composition II 3
ITAL 240 Italian Literature: Origins to 18th Century 3
ITAL 241 Italian Literature: 18th to 20th Centuries 3
ITAL 260 Italian Cultural History 3

Electives (Major)

Select 21 semester hours from the appropriate list obtained from the department with at least one course from literature and one from language.

Italian Minor

Required Courses

ITAL 141 Italian Grammar and Composition I 3
ITAL 142 Grammar and Composition II 3
ITAL 240 Italian Literature: Origins to 18th Century 3
ITAL 241 Italian Literature: 18th through 20th Centuries 3
ITAL 260 Italian Cultural History 3

Elective

Select 3 semester hours from the appropriate list obtained from the department.

Total Semester Hours 18

Teacher Certification

Students interested in teaching Italian must be admitted to the Teacher Education Program. See the professional sequence outlined in this catalog. As part of the professional sequence for Italian this course must be taken:

ITAL 419 The Teaching of Italian in Secondary Schools 3

Requirements total 36 s.h., divided as follows:

Major Requirements: (21 s.h.)

ITAL 141 Italian Grammar and Composition I 3
ITAL 142 Italian Grammar and Composition II 3
ITAL 160 Italian Cultural History 3
ITAL 240 Italian Literature: Origins to 18th Century 3
ITAL 241 Italian Literature: 18th to 20th Centuries 3
ITAL 309 Italian Conversation 3
ITAL 410 Italian Grammar for Teachers 3

Major electives: Select 15 semester hours from a list to be obtained by the department.

Second Teaching Field in Italian

An approved program of at least 30 semester hours and satisfactory completion of The National Teacher Examination is required for certification in a second teaching field. Information is available from the Office of Teacher Education.

ITAL 141 Italian Grammar Composition I 3
ITAL 142 Italian Grammar and Composition II 3
ITAL 240 Italian Literature: Origins to 18th Century 3
ITAL 241 Italian Literature: 18th through 20th Centuries 3
ITAL 260 Italian Culture History 3
ITAL 309 Italian Conversation 3
ITAL 410 Italian Grammar for Teachers 3

Elective

Select 3 semester hours from the appropriate list obtained from the department. Additional requirements may be obtained from the department.

Note: If a student has not studied a methods course in foreign language teaching, it is necessary, to take ITAL 419, The Teaching of Italian in Secondary Schools.

Portuguese Minor

Course Offerings

PORT 101, 102 Portuguese I and II (beginning level) ..... 3 ea.
PORT 103, 104 Portuguese III and IV (intermediate level) ..... 3 ea.
PORT 141, 142 Portuguese Grammar and Composition I and II (advanced level) ..... 3 ea.
PORT 160 Masterpieces in Portuguese Literature 3
PORT 162 Masterpieces in Brazilian Literature 3
PORT 221 Commercial Portuguese 3
PORT 260 Luso-Brazilian Culture 3
PORT 350 Translating I 3
PORT 385 Cooperative Education 4-8

For a minor in Portuguese, a student selects 18 semester hours from PORT 103 and above.

Hispanic Community Affairs Minor

Required Courses

SPAN 472 Puerto Rican Literature and Thought 3
OR
SPAN 280 Cuban Cultural History 3

Electives

Select 12 semester hours in courses from the interdepartmental list obtained from the department of Spanish and Italian.

Field Work

Semester Hours

Select 3 courses

SPAN 360 Hispanic Community Program 3
SPAN 481 Field Work I 3
SPAN 482 Field Work II 3
SPAN 483 Field Work III 3

Courses of Instruction

SPAN 101
SPANISH I 3.0

For students with no previous Spanish. Training in understanding, speaking and writing the language. Meets the General Education Requirement - Foreign Language.

SPAN 102
SPANISH II 3.0

Training in understanding, speaking, reading, and writing the language. A continuation of Spanish I. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 101 or equivalent.

SPAN 103
SPANISH III 3.0

A continuation of Spanish II to strengthen the language skills of understanding, speaking, reading and writing of the language. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 102 or equivalent.

SPAN 104
SPANISH IV 3.0

A continuation of Spanish III to strengthen the skills of understanding, speaking, reading and writing of the language. Meets the General Education Requirement - Foreign Language.
Prerequisites: SPAN 103, 120 or equivalent.

SPAN 135
SPANISH FOR NATIVE SPEAKERS 3.0
This course provides students who are native speakers with a program which enables them to perfect their command of both written and spoken Spanish beyond the Intermediate II level. The course is unique in that it places equal stress upon speaking, reading and writing in order to enable the student to function effectively with Spanish speaking people in the student's chosen profession. Emphasis is placed upon the more practical aspects of language learning.

SPAN 141
SPANISH GRAMMAR AND COMPOSITION I 3.0
This course is designed to give students an active command of the language by means of oral and written exercises, accompanied by a thorough review of the grammar, vocabulary, and idioms. Required for all majors.
Prerequisites: SPAN 140 or equivalent.

SPAN 142
SPANISH GRAMMAR AND COMPOSITION II 3.0
This course is designed to improve the student's mastery of the language through written and oral exercises accompanied by a review of advanced grammar. Required for majors.
Prerequisite: SPAN 141 or equivalent.

SPAN 151
MASTERPIECES OF SPANISH LITERATURE I 3.0
The course is designed to introduce the students to Spain's literary history through an analysis of its major works, movements, and cultural trends from the Medieval period to the 18th Century. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 104, 140 or equivalent.

SPAN 152
MASTERPIECES OF SPANISH LITERATURE II 3.0
The course is designed to introduce the student to Spain's literary history through an analysis of its major works, movements, and cultural trends from the 18th century to the present. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 104, 140 or equivalent.

SPAN 161
MASTERPIECES OF SPANISH-AMERICAN LITERATURE I 3.0
The aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from pre-Columbian times to the latter part of the nineteenth century. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 104, 140 or equivalent.

SPAN 162
MASTERPIECES IN SPANISH-AMERICAN LITERATURE II 3.0
The aim of the course is to give the student a general and comprehensive understanding of Spanish-American literature from the beginning of Modernism to the Contemporary Period. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: SPAN 104, 140 or equivalent.

SPAN 209
INTRODUCTION TO SPANISH PHONETICS 3.0
Spanish phonetics and phonemics: theory and practice; comparative analysis of Spanish and English phonology. The language laboratory is used extensively. Required for certification.
Prerequisites: SPAN 104 or 140.

SPAN 260
SPANISH CULTURAL HISTORY 3.0
The political, social, philosophical, literary and artistic ideas and institutions of Spain. Required for majors.
Prerequisite: SPAN 104 or 140.

SPAN 270
SPANISH-AMERICAN CULTURAL HISTORY 3.0
Development of the politics, art and philosophy of the Spanish-speaking nations of the western hemisphere. Required for majors. Meets the General Education Requirement - Foreign Language. Meets the Multicultural Awareness Requirement.
Prerequisite: SPAN 104 or 140.

SPAN 309
SPANISH CONVERSATION 3.0
Practice in spoken Spanish through assigned topics and participation in discussions about daily life and world events; gives a competence in Spanish as an instrument of oral expression. Classes limited to 16 students. Required for certification. Native speakers of Spanish must substitute another elective.
Prerequisite: SPAN 142.

SPAN 321
COMMERCIAL SPANISH 3.0
For students interested in the business field: styles of letter writing, business vocabulary, legal terminology. Emphasis on written fluency and expression.
Prerequisites: SPAN 141.

SPAN 350
TRANSLATING I 3.0
Introduction to the techniques of translating Spanish/English and English/Spanish. Student's translate actual documents and texts from a wide variety of fields in order to gain experience in methods of analysis, research and verification.
Prerequisites: SPAN 141, 142.

SPAN 351
TRANSLATING II 3.0
A continuation of Translating I. Materials chosen for translation reflect the career interests of the students in the class. Emphasis on professional ethics and the rudiments of translation theory.
Prerequisite: SPAN 350.

SPAN 352
PRACTICUM IN TRANSLATING 3.0
This course is designed to provide students with the practical experience of translating in semi-professional situations under faculty supervision.
Prerequisite: SPAN 350.

SPAN 365
SPANISH NOVEL OF THE 20TH CENTURY 3.0
The modern novel in Spain beginning with the "Generacion Del '98."
Prerequisites: SPAN 151, 152.

SPAN 366
THE SPANISH-AMERICAN NOVEL 3.0
Development of the Spanish-American novel up to 1945.
Prerequisites: SPAN 161, 162.

SPAN 367
SPANISH-AMERICAN ESSAYISTS 3.0
The role of the essay in Spanish-American life and culture. Studies of selected modern essayists.
Prerequisite: SPAN 161, 162 or equivalent.

SPAN 368
CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3.0
Trends in the contemporary short story; the short story as an important genre in Spanish-American letters.
Prerequisites: SPAN 161, 162.

SPAN 370
CONTEMPORARY SPANISH-AMERICAN POETRY 3.0
A study of contemporary Spanish-American poetry from its roots in modernism to the present day.
Prerequisites: SPAN 161, 162.

SPAN 371
SPANISH POETRY AND DRAMA OF THE 19TH CENTURY 3.0
A critical study of the main works of this century beginning with Duque de Rivas and Espronceda through Echegaray and Galdos.
Prerequisites: SPAN 151, 152.

SPAN 372
SPANISH PROSE OF THE 19TH CENTURY 3.0
The main works in Romanticism, Realism and Naturalism in 19th century Spain.
Prerequisites: SPAN 151, 152.

SPAN 375
STUDY ABROAD 3.0
Study at a university in a Spanish-speaking country to gain firsthand knowledge of the historical, social, economic and cultural life of the country. Credit by evaluation.
Prerequisite: Permission of department chairperson.

SPAN 380
SPANISH THEATRE OF THE TWENTIETH CENTURY 3.0
Principal trends of the Spanish theater from Benavente to the contemporary dramatists.
Prerequisites: SPAN 151, 152.

SPAN 385
COOPERATIVE EDUCATION 4.0-8.0
This course provides an opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior or senior standing, 3.00 cumulative grade point average in Spanish courses, department coordinator's permission, department chairperson's permission, and approval of office of cooperative education.

SPAN 410
ADVANCED SPANISH GRAMMAR 3.0
This course is a review of the most important structural features of Spanish, with special emphasis in those areas of interference with English structure which present the greatest difficulties to the student of Spanish. Required for certification.

SPAN 419
THE TEACHING OF SPANISH IN SECONDARY SCHOOLS 3.0
Values and aims in foreign language teaching, survey of methods, pronunciation, reading, grammar, reviews, realia, examinations, supervised study, etc., readings and discussions, lesson planning and demonstrations; and organization of material for student teaching. Required for certification.
Prerequisite: Senior standing.

SPAN 450
INTRODUCTION TO INTERPRETING 3.0
This course is designed to teach the student the specialized techniques of oral interpreting and to prepare them for a career in the field. Visits to observe professional interpreters at work will be arranged.
Prerequisites: SPAN 350, 351.

SPAN 452
TRANSLATING III 3.0
Under careful supervision, the student will prepare a translation project, usually consisting of the translation of a text of approximately 50 typewritten pages.
Prerequisites: SPAN 350, 351.

SPAN 460
EL QUIJOTE 3.0
The literary and social background, structure, themes and style of El Quijote as a masterpiece.
Prerequisites: SPAN 151, 152 or equivalent.

SPAN 466
CONTEMPORARY SPANISH-AMERICAN THEATER 3.0
The principal movements of the theater in Spanish America in the 20th century.
Prerequisites: SPAN 161, 162.

SPAN 469
THE DRAMA OF THE GOLDEN AGE 3.0
Representative dramatists of the Siglo de Oro: Lope de Vega, Tirso de Molina, Ruiz de Alarcon and Calderon de La Barca.
Prerequisites: SPAN 151, 152 or equivalent.

SPAN 470
SENIOR SEMINAR 3.0
Selected topics from Spanish and Spanish-American literature acquaint the student with the techniques of literary research.
Prerequisites: Senior majors only, permission of instructor.

SPAN 471
CONTEMPORARY TRENDS IN THE SPANISH-AMERICAN NOVEL 3.0
The contemporary novel in Spanish America, with emphasis on the "Nueva Novela."
Prerequisite: SPAN 162.

SPAN 472
PUERTO RICAN LITERATURE AND THOUGHT 3.0
Insight into the literature and philosophy of the Caribbean Hispanic world; contemporary Puerto Rican writers and the emergent Puerto Rican influence in the United States metropolitan areas. Meets the Multicultural Awareness Requirement.
Prerequisite: SPAN 161, 162.

SPAN 475
SEMINAR ON HISPANIC CULTURE IN THE UNITED STATES 3.0
A study of the Hispanic cultures and their adaptation culturally and linguistically to the United States, considering especially Puerto Ricans, Chicanos and other minority groups. Meets the Multicultural Awareness Requirement.
Prerequisites: SPAN 472, instructor's permission.

SPAN 480
INDEPENDENT STUDY 3.0
Directed independent study and research in Spanish. Open to students with a 3.00 cumulative average in at least 9 semester hours of Spanish electives.
Prerequisites: 24 hours of major Spanish credits.

SPAN 481
FIELD WORK IN HISPANIC COMMUNITY I 3.0
Required course in the academic minor in Hispanic Community Affairs. Student will devote 100 hours work in the area in which he chooses to concentrate: child care centers, mental health clinics, recreation activities, social agencies, etc. under the supervision of the MSC Passaic Center. In addition, the student must carry out an independent project by which he will demonstrate his ability to communicate with and engage the Hispanic community. Not for major credit.
Prerequisites: SPAN 360, instructor's permission.

ITAL 101
ITALIAN I 3.0
For students with no previous knowledge of Italian. This course imparts the basic foundations in the language. Meets the General Education Requirement - Foreign Language.

ITAL 102
ITALIAN II 3.0
Training in understanding, speaking, reading and writing the language. A continuation of Italian I. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 101 or equivalent.

ITAL 103
ITALIAN III 3.0
A continuation of Italian II to strengthen the four language skills. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 102 or equivalent.

ITAL 104
ITALIAN IV 3.0
A continuation of Italian III to strengthen the basic language skills through reading and composition. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 103 or equivalent.

ITAL 141
ITALIAN GRAMMAR AND COMPOSITION I 3.0
Gives students better control of the structure of the language through written and oral practice. Required for majors.
Prerequisite: ITAL 104 or equivalent.

ITAL 142
GRAMMAR AND COMPOSITION II 3.0
Mastery of the language through written and oral exercises; review of advanced grammar. Required for majors.
Prerequisite: ITAL 141.

ITAL 240
STUDIES IN ITALIAN LITERATURE ORIGINS:
TO 18TH CENTURY 3.0
Representative works from the "Scuola Siciliana" to the 18th century analyzed and discussed. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 104.

ITAL 241
STUDIES IN ITALIAN LITERATURE:
18TH THROUGH 20TH CENTURY 3.0
Representative works of the 18th through 20th centuries analyzed and discussed to train students in the analysis of library works. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 104.

ITAL 260
ITALIAN CULTURAL HISTORY 3.0
This course is designed to acquaint the students with the complex and rich texture of Italian civilization from its beginnings to the present. The development of Italian arts, music and theater as well as major social and political institutions, religion, etc. will be considered against the background of Italian history. Required for majors. Meets the General Education Requirement - Foreign Language.
Prerequisite: ITAL 104.

ITAL 275
ITALIANS AND ITALIAN-AMERICANS:
COMPARATIVE STUDIES 3.0
This course shows the relationship between the Italian and Italian-American experiences. It deals with aspects of religion, politics, language, work and moral codes. Comparisons are made with the experiences of other ethnic groups in America. The course is taught with an interdisciplinary approach. (Taught in English). Cross-listed as GNHU 176 and EDFD 275.

ITAL 276
THE ITALIAN CINEMA 3.0
Development of the Italian cinema from neo-realism to today, in particular dealing with the following directors: Rossellini, Fellini, Desica, Zavattini, Bertolucci, Pasolini, Antonioni, Germi and Wertmueller. (Taught in English.) Cross-listed as GNHU 277.

ITAL 309
ITALIAN CONVERSATION 3.0
Practice in spoken Italian through assigned topics and discussions about daily life and world events. An opportunity to acquire an adequate vocabulary and competence in Italian as an instrument of oral expression.
Prerequisite: ITAL 104.

ITAL 321
COMMERCIAL ITALIAN 3.0
This course has been prepared for students majoring or minoring in Italian, or who can demonstrate appropriate linguistic ability in Italian, who wish to study the vocabulary, protocol and styles of correspondence, and documents common to the Italian-speaking business world.
Prerequisite: ITAL 142 or equivalent.

ITAL 350
TRANSLATING 3.0
The course will cover general theoretical and philosophical problems of translation and specific problems encountered in the actual translation of different types of texts ranging from literary works to daily communications.
Prerequisite: ITAL 142.

ITAL 351
ITALIAN LITERATURE OF THE 20TH CENTURY I 3.0
Particular attention to the contemporary period. Pirandello, Saba, Ungaretti, Montale and Quasimodo.
Prerequisite: ITAL 241.

ITAL 352
ITALIAN LITERATURE OF THE 20TH CENTURY II 3.0
Particular attention to the contemporary period. Pavese, Moravia, Silone, Vittorini and others.
Prerequisite: ITAL 241.

ITAL 361
ITALIAN LITERATURE OF THE 19TH CENTURY I 3.0
Neo-classicism, Romanticism, and Verismo. Foscolo, Manzoni and Leopardi.
Prerequisite: ITAL 241.

ITAL 362
ITALIAN LITERATURE OF THE 19TH CENTURY II 3.0
Neo-classicism, Romanticism, and Verismo. Carducci, Pascoli, Verga and D'Annunzio.
Prerequisite: ITAL 241.

ITAL 375
ITALIAN STUDY ABROAD 3.0
Study at an Italian university to gain first hand knowledge of the historical, social, economic and cultural life of Italy. Credit by evaluation.
Prerequisite: Permission of department chairperson.

ITAL 377
ITALIAN LITERATURE OF THE 18TH CENTURY 3.0
Representative works of the most important writers of this century: Goldoni, Parini, Alfieri, and others will be read and analyzed.
Prerequisite: ITAL 240.

ITAL 385
COOPERATIVE EDUCATION 4.0-8.0
This course provides an opportunity to extend academic resources beyond the campus by placing the student in meaningful learning situations with thoroughly screened and approved employers. Each chosen situation is to prepare the student to play a dynamic role in society.
Prerequisites: Junior or senior standing, 3.00 cumulative grade point average in Italian courses, department coordinator's permission, department chairperson's permission, and approval of office of cooperative education.

ITAL 410
ITALIAN GRAMMAR FOR TEACHERS 3.0
A review of the most important structural features of Italian with special emphasis on those areas of interference with English which present the greatest difficulties for the student of Italian. Open to all Italian majors.
Prerequisite: ITAL 142.

ITAL 419
THE TEACHING OF ITALIAN IN SECONDARY SCHOOLS 3.0
Aims, objectives, and methods of teaching Italian in secondary schools; textbooks, supplementary teaching material, the language laboratory, tests, etc.
Prerequisites: ITAL 240, 241, senior standing.

ITAL 441
ITALIAN LITERATURE OF THE RENAISSANCE I 3.0
The development of humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. Emphasis on select works of Petrarch and Boccaccio.
Prerequisites: ITAL 240, 241.

ITAL 442
ITALIAN LITERATURE OF THE RENAISSANCE II 3.0
The development of humanism in Italy through a study of significant works of representative authors of the 14th, 15th and 16th centuries. Selected readings from Lorenzo De Medici, Poliziano, Pulci, Boiardo, Ariosto, Tasso, Machiavelli and others.
Prerequisites: ITAL 240, 241.

ITAL 461
DANTE SEMINAR I 3.0
Medieval thought as represented in Dante's works. A selection of readings from Vita Nova, Convivio, Monarchia, analysis and exegesis of inferno.
Prerequisites: ITAL 240, 241.

ITAL 462
DANTE SEMINAR II 3.0
Medieval thought as represented in Dante's works. A selection of readings from Vita Nova, De Vulgari Eloquentia, Convivum, and Divina Commedia read and analyzed.
Prerequisites: ITAL 240, 241.

OTHER ACADEMIC PROGRAMS

College Honors Program

Director: Rhoda K. Unger

The College Honors Program provides a core of academic excellence stimulates a sense of community, and establishes a lively and creative force in support of the academic and intellectual interests of outstanding students. Participants share a core curriculum of seven interdisciplinary seminars which fulfill various components of the undergraduate general education requirements. Honors sections of regular courses will also be available to participants as well as to selected students who are not participants in the college honors program itself.

Admission to the College Honors Program as a freshman requires that the applicant meet two of the following criteria:

1. Rank in the top 10% of high school class.
2. A score of at least 600 on either the verbal or math SAT.
3. A combined SAT score of at least 1150.
4. An unusual ability in the creative arts or exceptional leadership or other extraordinary accomplishment.

Students interested in applying to the program must fill out an application form that includes a brief essay. Selected candidates may be interviewed by a member of the Honors Program Advisory Board as part of the admission process. The number of students in the program is limited to sixty per entering class. Completion of the program's requirements becomes a part of the student's official transcript and is noted on the student's diploma. It is expected that students in the College Honors Program will choose to be involved in existing honors programs within their major disciplines. Courses in the junior year are designed to facilitate this transition.

Required Courses

Freshman Year

HONP 100
HONORS SEMINAR IN GREAT BOOKS AND IDEAS, PART I 3.0
Focus on the significant masterworks and intellectual foundations of Western civilization. Original source materials will be read. Meets the General Education Requirement - Communication, Writing, Reading.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 101
HONORS SEMINAR IN GREAT BOOKS AND IDEAS, PART II 3.0
Continues to focus on the significant masterworks and intellectual foundations of Western civilization. Original source materials will be read. Meets the General Education Requirement - Communication, Writing, Reading.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 102
HONORS SEMINAR IN 20TH CENTURY CIVILIZATION, PART I 3.0
Focus on important political, economic, and technological events of the twentieth century, and their implications for the individual and the society. Meets the General Education Requirement - Contemporary Issues.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 103
HONORS SEMINAR IN 20TH CENTURY CIVILIZATION, PART II 3.0
Continues to focus on important political, economic, and technological events of the twentieth century, and their implications for the individual and the society. Meets the General Education Requirement - Social Science, Topic Course.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 112
HONORS SEMINAR IN COMPUTING 3.0
Introduction to the theory, discipline, philosophy and applications of computing. The effect of computing upon the individual, the society, and the environment. Use of application tools including word-processing, spreadsheets, data bases, and communications. Crosslisted with CMPT 112.
Prerequisite: Permission of the Director of the Honors Program.

Sophomore Year

HONP 201
HONORS SEMINAR IN THE FOUNDATIONS OF THE CREATIVE PROCESS 3.0
This course is designed for second-year honors program students. It makes no assumptions that they have a background in the creative arts. This course will acquaint them with the language and process of the creative arts from both an historical and contemporary perspective. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.
Prerequisite: For College Honors Programs students only or by permission of instructor.

HONP 202
HONORS SEMINAR ON SOCIAL ANALYSIS 3.0
Comparison of various social sciences in terms of theory, methodology and forms or analysis. A particular topic will be focused upon each semester. Meets the General Education Requirement - Social Science, Survey Course.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 210
HONORS SEMINAR IN SCIENCE I 4.0
Interdisciplinary course in the natural and physical sciences consisting of seminars and laboratory experience. This is the first of a two-semester requirement for honors program students. Enrollment will be limited to MSC Honors Program students. Meets the General Education Requirement - Natural/Physical Science, Laboratory or Non-laboratory Science.
Prerequisite: For College Honors Program students only or permission of instructor.

HONP 211
HONORS SEMINAR IN SCIENCE II 3.0
Interdisciplinary course in the natural and physical sciences consisting of seminars. This is the second of a two-semester requirement for honors program students. Enrollment will be limited to MSC Honors Program students. Meets the General Education Requirement - Natural/Physical Science, Non-laboratory Science only.
Prerequisite: For College Honors Program students only or by permission of instructor.

Junior Year

HONP 301
HONORS SEMINAR ON WAYS OF KNOWING 3.0
An interdisciplinary perspective on the nature of knowledge, including philosophical definitions of knowledge, the historical interaction of science with philosophical views of knowledge, the social context of knowledge, and the influence of values on the nature and development of knowledge.
Prerequisite: For College Honors Program students only or by permission of instructor.

HONP 302
HONORS SEMINAR ON METHODS OF SCHOLARSHIP AND RESEARCH 3.0
The course will aim to familiarize students with the methods used in contemporary research in the humanities and the natural and social sciences. There are two goals which may provide a tension to the course: preparing students to embark on a major research project in their own discipline and making them sensitive to the issues in doing scholarship in other disciplines.
Prerequisite: For College Honors Program students only or by permission of instructor.

GENERAL HUMANITIES

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Coordinator: Timothy Renner

Humanistic studies are concerned with the critical and expressive awareness of the meaning of human experience, and the many ways in which mankind has seen itself in the past and sees itself today. Among social, scientific, philosophical and religious studies, in literary and artistic expression, the humanities seek the common awareness of the human problem and the varying attempts at its solution.

The major in General Humanities is recommended for students who have a broad interest in liberal arts. The major begins with two introductory courses, General Humanities I and II, which together offer an overview of important themes, periods, subject areas, and modes of inquiry within the humanities. Next, the student takes a series of selected courses in five of the traditional humanistic disciplines. At this stage, the student, in consultation with a faculty advisor, identifies a special topic which will be the subject of the senior thesis or other project and plans a portion of the courses taken within the various disciplines so as to include four which make up a concentration centering around the topic of interest. Finally, the student prepares a senior thesis or other project.



General Humanities Major

Required Courses

Semester Hours

GNHU 201, 202 General Humanities I, II 6

GNHU 499 Senior Humanities Seminar (to accompany writing of senior thesis) 4

Electives (Major)

Students will take a total of 24 semester hours in selected courses in the five areas listed (detailed lists of appropriate courses within each area may be obtained from the faculty advisor). Four courses out of the total eight will be carefully chosen so as to provide the student with background on a humanistic topic which is interdisciplinary in nature and which will be the subject of the senior essay.

a. History: One course from two of the following groups:
   (1) Earlier Western
   (2) Later Western
   (3) Non-Western

   total 6

b. Philosophy and Religious Studies: One course from each group:
   (1) Philosophy
   (2) Religious Studies

   total 6

c. Literature: One course from each group:
   (1) Comparative Literature
   (2) National Literature

   total 6

d. Art History: One course 3

e. Music History: One course 3

Grand total: 34

Courses of Instruction

GNHU 201

GENERAL HUMANITIES I (TO 1400) 3.0

A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from the ancient world to the Middle Ages. Meets the General Education Requirement - Humanities, General Humanities.

GNHU 202

GENERAL HUMANITIES II (FROM 1400) 3.0

A broadly historical introduction to important themes and topics in the humanities as seen through literature, philosophy, and the arts from Renaissance to the present. Meets the General Education Requirement - Humanities, General Humanities.

GNHU 480

INDEPENDENT STUDY IN GENERAL HUMANITIES 1.0-4.0

Directed independent study and research in general humanities. May be elected in lieu of GNHU 499, Senior Humanities Seminar, in years when the seminar is not being offered.

Prerequisite: Permission of the program coordinator.

GNHU 499

SENIOR HUMANITIES SEMINAR 4.0

A seminar for majors. The student will develop, in a senior thesis or other creative project, an interdisciplinary approach to an idea or problem arising from the concentration.

Prerequisite: Senior standing as a General Humanities major.

NEW JERSEY SCHOOL OF CONSERVATION

SCHOOL OF PROFESSIONAL STUDIES

Director: John J. Kirk

The New Jersey School of Conservation is one of the largest college operated environmental education centers in the world and is operated for the State of New Jersey by Montclair State College through the School of Professional Studies. The 240-acre facility is located in Stokes State Forest.

Through its varied programs, the School of Conservation aims to develop in students an understanding of the environmental problems that threaten life on the planet and to review the possible solutions to these problems.

The School's activities and facilities are designed to handle both short- and long-term learning experiences. These range from two-and one-half-, four-, or five-day programs for 10,000 elementary and secondary school students to graduate courses for over 300 students of the state colleges, private colleges, and Rutgers, The State University. In addition, since the School is operationally a part of Montclair State College, an increasing number of the College's curriculum planners are looking toward creating or modifying courses to be offered for Montclair State credit through the School. The School of Conservation also conducts workshops, which earn Montclair State College graduate/undergraduate credit, for elementary and secondary school teachers and for adults interested in the teaching and learning of environmental concerns. The faculty of the School have organized and developed one day workshops for community action organizations.

Courses of Instruction

CNFS 460
PRACTICUM IN ENVIRONMENTAL EDUCATION 3.0
This course is designed to provide future teachers and supervisors with a background of experience and knowledge which will enable them to organize and conduct environmental education programs. Using an extensive library of environmental education materials, students formulate teaching units, lists of teaching aids, and projects suitable for use in environmental programs. Participating in environmental programs with school children in residence at the School of Conservation furnishes a practical background for environmental education development.

CNFS 470
INTRODUCTION TO WILDERNESS STEWARDSHIP 2.0
Intensive two week camping course to be held entirely in the field. Provides a basic understanding of how to utilize our natural areas with minimum environmental impact while pursuing outdoor recreational activities. An additional laboratory fee to cover food, lodging, and equipment will be required.

CNFS 471
FUNDAMENTALS OF WILDERNESS LEADERSHIP 3.0
Intensive three week backcountry camping course to be held entirely in the field. Throughout the program, leadership, judgment, conservation, and sound expedition skills and abilities are emphasized and practiced. A lab fee to cover the cost of food lodging, and equipment will be required.
Prerequisite: CNFS 470.

CNFS 472
TRAINING FOR WILDERNESS LEADERS 5.0
Intensive five week wilderness camping course to be held entirely in the field. Provides a basic understanding of backcountry principles and various travel skills and emphasizes leadership, judgment, conservation and sound expedition skills. A lab fee to cover the cost of food lodging, and equipment will be required.

CNFS 495
WORKSHOP ON UTILIZING NATURAL ENVIRONMENTS 1.0
To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers to increase their knowledge of as well as skills in the techniques of incorporating the physical, biological, and socio-cultural components of the environment in their curricula will be emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging from 15 to 20 specific subject areas.

CNFS 496
FIELD STUDY IN HUMANITIES AND NATURAL SCIENCE 1.0
Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.

CNFS 497
FIELD STUDIES IN SOCIAL STUDIES AND OUTDOOR RECREATION 1.0
Provides an understanding of how outdoor pursuits and social studies may be taught using natural environments to develop environmental sensitivity. Does not meet resident requirement.

CNFS 499
ENVIRONMENTAL IMPACT OF RECREATION ON NATURAL AREAS 3.0
Students will examine the impact of recreation on natural areas in four of New Jersey's major eco-systems: Upland Forest, Pine Lands, Salt Marsh and Barrier Beach. On-site visits to a variety of natural areas will allow for comparison and contrast of heavily used sites with those which have been relatively undisturbed. Students will inventory the natural resources of each site and will use their inventories to develop "recreation impact statements." First hand knowledge of the four ecosystems will be gained by camping in or near each area.
Prerequisite: Special fee.

TEACHER EDUCATION PROGRAM

SCHOOL OF PROFESSIONAL STUDIES

Dean and Certification Officer: Nicholas M. Michelli
Director: Robert Pines

Montclair State's Teacher Education Program includes a number of distinctive features, including a network of clinical schools in which students complete their field experiences and a programmatic emphasis on teaching for critical thinking. Also, Montclair State and the Newark Board of Education have begun the joint operation of a Professional Development School in Newark. The Teacher Education Program was awarded the Christa McAuliffe Showcase for Excellence award by the American Association of State Colleges and Universities for its collaboration with public schools and is one of twelve programs selected from across the nation to become a member of the Center for Educational Renewal at the University of Washington. The program is considered a national model for other colleges and universities.

The Teacher Education Program at Montclair State College reflects a balance between a liberal education and professional preparation. The program which is coordinated by the Director of Teacher Education, combines general education, subject-matter (major) specialization and professional training. The professional component addresses four broad areas: the curriculum, student development and learning, the classroom and the school, and effective teaching skills. Special emphasis is placed upon the research findings related to effective teaching. The specific objectives of the program are described in the *Teacher Education Handbook*, which may be obtained in the department of Curriculum and Teaching. The requirements for teacher certification are subject to changes in state regulations and college policy. Although students will be notified of program changes, they should regularly consult with departmental and education advisors as well as the Office of Teacher Education in Room 006 of Chapin Hall, telephone (201-893-4262).

The Teacher Education Program provides a sequence of professional courses and field experiences leading to teacher certification upon passing the required National Teacher Examination, while the student majors in a particular field of interest. Field experiences are collaboratively coordinated by the College and specially designated clinical schools. The graduate is certified to teach in all New Jersey public schools and is legally qualified to teach in other member states of the Interstate Certification Compact.

A. General Education

Students interested in teacher certification complete the same general education program as other students at the College. It should be noted, however, that certain courses meet both general education *and* teacher education requirements. These are noted in the section on the professional sequence below, and are recommended if you wish to complete your program with the minimum number of semester hours.

B. Special Requirements

Students who intend to prepare for teaching should fulfill the following special requirements prior to formal admission to the certification program:

Human and Intercultural Relations Requirement

This requirement focuses on social interaction, intergroup relations, and the cultural contributions of minority groups in the society. A course must be selected from the following list. All of these courses also fulfill the Multicultural Awareness Requirement. Certain courses listed below may simultaneously be used to meet General Education Requirements, *if they are included in the General Education Requirement Appendix of Courses.*

Anthropology
ANTH 200 Urban Anthropology
ANTH 311 Anthropology of American Subcultures

Curriculum and Teaching
CURR 423 Teaching in Urban Schools

Economics
ECON 215 The Economics of Social Problems

Educational Foundations
EDFD 445 Puerto Rican Children in Mainland Schools

English
ENGL 238 Afro-American Writers

Environmental, Urban and Geographic Studies
EUGS 313 Urban Geography

History
HIST 217 History of Black Americans

Home Economics
HEFM 445 The Inner City Family

Management
MGMT 332 Minorities in Business

Political Science
POLS 308 Ethnic Politics in America
POLS 312 Black Politics in America

Psychology
PSYC 246 Psychology of the Black Experience

Reading and Educational Media
MEDI 355 Media in Intercultural Communication

Sociology
SOCI 202 Racial and Ethnic Relations
SOCI 205 Black Family
SOCI 311 Urban Sociology

Spanish and Italian
SPAN 360 Hispanic Community Program

Speech Proficiency Requirement—Competence in speech must be demonstrated by completing the course Fundamentals of Speech: Communications Requirement or by passing an examination administered by the Broadcasting, Speech Communication, Dance and Theatre Department.

Examination in Physiology and Hygiene—This requirement may be satisfied by presenting college study in such areas as biology, personal health problems, community health, school health, family health, health counseling, nutrition or health administration or by taking an examination administered by the State Department of Education.

C. Admission to Teacher Education

All students who intend to prepare for teaching must make formal application for admission to the teacher preparation program. It is recommended that students apply at the beginning of the second semester of the sophomore year. Application forms may be obtained by interested students from the Office of Teacher Education, School of Professional Studies. The application will be screened by a faculty committee and only those applicants who meet the admission criteria will be accepted.

It is important that a student make the decision to apply for admission to the program (admission to the college is not admission to the Teacher Education Program) as soon as possible. If application is made later than the end of the sophomore year, there may be some difficulty in completing the professional sequence in four years.

The criteria for admission are:

1. Three recommendations, at least two from faculty members who know the applicant. One may be a former high school teacher who knows the applicant.
2. Cumulative overall average of at least 2.50 and a cumulative average of 2.50 with no failing grades in the major or in courses in the professional sequence. (Some departments require a higher major average. Consult your advisor for information.)
3. Speech proficiency prerequisite.
4. Successful completion of prerequisite courses (see below).
5. Successful completion of major course requirement.
6. Evidence of active interest in community affairs and teaching.
7. Approval of a screening committee with representation from the School of Professional Studies and the student's major field.
8. Clearance by the Student Personnel Division.
9. Passage of "Basic Skills Requirement" at the college.
10. A self-rating scale.
11. Any special criteria (e.g. portfolio review writing sample).

When a student is notified of admission to the program, advisors from the professional-education sequence and the major will be assigned who will help the student plan the sequence properly. Further information regarding the process of admission to teacher education can be secured from the Office of Teacher Education.

NOTE: Some probational admissions are made. Consult the Office for information.

D. Professional Sequence for Teacher Education Certification

Five semesters including the semester of acceptance are required to complete the professional sequence. This is the general pattern for teacher certification programs. Some require additional methods courses. You are encouraged to consult a departmental advisor early in your program.

FRESHMAN YEAR

*PSYC 101 General Psychology I: Growth and Development ..... 3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)

SOPHOMORE YEAR

*PSYC 200 Educational Psychology ..... 3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR SOCIAL SCIENCE COURSE)
*CURR 200 Initial Field Experience ..... 1 Semester Hour

(Apply To Teacher Education Program at this point.)

JUNIOR OR SENIOR YEAR

CURR 410 Intermediate Field Experience inEducation ..... 1 Semester Hour
Departmental Methods Course ..... 3-4 Semester Hours
EDFD 220 Philosophical Orientation to Education ..... 3 Semester Hours
(MEETS GENERAL EDUCATION REQUIREMENT FOR PHILOSOPHY COURSE)
CURR 400 Teacher, School and Society ..... 3 Semester Hours
CURR 409 Teaching for Critical Thinking
OR
EDFD 409 Teaching for Critical Thinking
OR
READ 409 Teaching for Critical Thinking ..... 3 Semester Hours
A course in teaching reading under advisement ..... 3 Semester Hours

SENIOR YEAR

Professional Semester Package including student teaching ..... 13 Semester Hours
CURR 435 Effective Teaching/Productive Learning ..... 3 Semester Hours
CURR 402 Seminar in Professional Education ..... 1 Semester Hour
Departmental Seminar ..... 1 Semester Hour
CURR 411 Supervised Student Teaching ..... 8 Semester Hours

**Prerequisite Courses*

Note: You are urged to consult frequently with a departmental advisor, the Office of Teacher Education or the Department of Curriculum and Teaching.

E. National Teacher Examination

The New Jersey State Board of Education requires candidates for instructional certificates to take sections of the National Teacher Examination and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Education, Room 006, Chapin Hall.

Graduate and Special Programs

1. Certification Program (Post-Baccalaureate)—A program leading to a New Jersey teaching certificate for holders of the B.A. degree who do not wish to enter a graduate degree program.
2. Master of Arts in Teaching—Designed for liberal arts graduates who seek certification as teachers. Special options, including one with a focus on Philosophy for Children, are available.
3. The Master of Education degree—Designed for the teacher who wishes to upgrade classroom knowledge and skills.

INTERDISCIPLINARY MINORS

African-American Studies Minor
(18 semester hours)

Director: Saundra

The undergraduate minor in African-American studies is an interdisciplinary academic program designed to be complementary to any of the undergraduate majors of Montclair State College. The African-American and African syntheses within the context of African, American and European culture are presented with their transcultural, interethnic and intellectual traditions-providing an appreciation of the heritage, arts, sciences and values on non-European and non-Euro-American groups. The African-American Studies program will also provide for Black students a greater knowledge of self, self-respect and self-esteem. African-American Studies for other students will build knowledge and awareness of African-American history, African-American culture and African-American people. Students who are interested in completing the requirements of the minor are urged to consult with the director about their programs.

Required Courses

Select three semester hours from each category for a total of six required semester hours.

		Semester Hours
Category A		
HIST 108	Introduction to African Civilization	3
HIST 217	History of Black Americans	3
Category B		
PSYC 246	Psychology of the Black Experience	3
SOCI 202	Racial and Ethnic Relations	3

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the director of African-American Studies.

Courses of Instruction

Anthropology
ANTH 301
PEOPLES OF AFRICA 3.0
Analyzes diversity in the lifestyles of representative cultures. Discussion of prehistory, culture change, and contemporary problems in Sub-Saharan Africa. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

Broadcasting, Speech Communication, Dance and Theatre
STDN 345
DANCE TECHNIQUE: ETHNIC 3.0
The distinctive techniques customarily related to specific racial and cultural groups. The groups studied will vary from semester to semester. May be taken more than once. Meets the Multicultural Awareness Requirement.

English
ENGL 238
AFRO-AMERICAN WRITERS 3.0
Major Afro-American writers from colonial times to the present. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

ENLT 366
AFRICAN MYTH AND LITERATURE 3.0
The nature of the sub-Sahara experience and vision through African myths and literary works within the context of culture, criticism and theory. Meets the Multicultural Awareness Requirement.

Environmental, Urban and Geographic Studies
EUGS 412
GEOGRAPHY OF SUB-SAHARA AFRICA 3.0
Topical and regional study of Africa. Examines soils, vegetation, climate, physiography, mineral resources and other aspects of the physical environment in the light of man's habitation of the continent. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives.

Fine Arts
ARHS 275
AFRO-AMERICAN ART 3.0
Afro-American art in the United States from colonial times to the present. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation. Meets the Multicultural Awareness Requirement.

ARHS 458
TRADITIONAL ARTS OF SUB-SAHARAN AFRICA 3.0
The painting, sculpture and minor arts of the cultures of Africa; prehistoric remains and art traditions of the more recent past in the context of stylistic groupings, relation to ceremony and to daily life; symbolism and relations to the arts of other cultures. Meets the Multicultural Awareness Requirement.

History
HIST 108
INTRODUCTION TO AFRICAN CIVILIZATION 3.0
Pre-Colonial African civilization and its eclipse under slavery and the colonial onslaught. Principal social, political and environmental systems of the period. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

HIST 217
HISTORY OF BLACK AMERICANS 3.0
Role of Americans of African descent in the development of the United States. Contributions of Black Americans from initial discovery and exploration to the mid-20th century. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

Home Economics
HEFM 445
THE INNER CITY FAMILY 3.0
Sub-cultures residing in large cities. The impact of urbanization, ethnicity, social and economic institutions. Problems which families encounter. Community contact is part of the course. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: Junior/senior standing.

Management
MGMT 332
MINORITIES IN BUSINESS 3.0
Methods and techniques for solving problems minority group members may encounter in business. New or existing personnel in managerial and non-managerial positions in established firms. Minority group members as entrepreneurs; relationships with other members of an organization. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: MGMT 311, MKTG 340.

Music
MUGN 150
INFLUENCE OF AFRO-AMERICAN CULTURE ON MUSIC 3.0
Ways in which the Afro-American culture has affected the development of American folk and art music. Meets the Multicultural Awareness Requirement.

MUGN 209
INTRODUCTION TO JAZZ 3.0
Jazz as an American phenomenon; musical materials as manipulated by jazz artists; the impact on American popular music, dance and theatre; early jazz players and developments. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation. Meets the Multicultural Awareness Requirement.

MUGN 309
THE ART OF JAZZ 3.0
Development of jazz in America and abroad; sociological implications in American society and the impact of jazz upon contemporary composition. Meets the Multicultural Awareness Requirement.

Political Science
POLS 204
GOVERNMENT AND POLITICS OF AFRICA 3.0
Governmental and political development, organization and practices in sub-Saharan Africa. Meets the General Education Requirement - Social Science, Non-Western Cultural Perspectives. Meets the Multicultural Awareness Requirement.

POLS 312
BLACK POLITICS IN AMERICA 3.0
Black participation in the American political system from the Colonial period to the present. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

Psychology
PSYC 246
PSYCHOLOGY OF THE BLACK EXPERIENCE 3.0
Historical impact of scientific and institutional racism on the psychological study of Blacks. Survey and critical analysis of traditional European approaches with non-traditional methods for comparison. Future development and advancement of a Black Psychology considered. Meets the General Education Requirement - Social Science, Survey Course. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.
Prerequisite: PSYC 101.

Sociology
SOCI 202
RACIAL AND ETHNIC RELATIONS 3.0
The social meaning of race and ethnicity. The social, psychological and structural sources of racism; the consequences of this phenomenon to groups; situation and comparative data. Meets the General Education Requirement - Social Science, Topic Course. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

SOCI 205
THE BLACK FAMILY 3.0
The Black family in American society; historical perspectives and contemporary conflicts surrounding the Black family. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

SOCI 311
URBAN SOCIOLOGY 3.0
Processes of urbanization and conditions of urban life; nature of urban social relationships; organizations of city life; urban ecological patterns and demographic conditions; municipal and regional influences of metropolitan centers. Meets the Multicultural Awareness Requirement. Meets the Human and Intercultural Relations Requirement.

Archaeology Minor
(18 semester hours)

Coordinator: Timothy Renner

Jointly sponsored by the Anthropology, Classics, and Fine Arts departments, this minor offers the student an interdisciplinary program in the study of ancient cultures. The minor is flexible enough to allow students to explore the newest scientific techniques in excavation, dating, and laboratory analysis as well as the historical and aesthetic appreciation of the arts of ancient societies. It also encourages the study of foreign languages and those natural sciences which aid in the reconstruction of ancient cultures.

Currently there are two special opportunities for students to participate in excavation as part of their course work: (1) in the northern New Jersey area, where colonial and prehistoric North American cultures are studied first-hand; (2) in Israel, where Montclair participates in an international archaeological project to study the Iron Age, Greco-Roman, and Byzantine cultures of the ancient "Land of Geshur" region.

In general, the Archaeology minor makes an excellent complement to any liberal arts or professional studies major. But more specifically, archaeology has recently become a subject of great interest to many people in the public at large, and students who go on to work in the media, in the travel industry, and in international business (to name only a few examples) can profit greatly from studying it. In addition, the growing need in recent years for more archaeologists to carry out archaeological impact studies for construction and historic preservation projects has created many new opportunities in applied archaeology, especially for students who also study anthropology and/or go on to graduate work in archaeology. Lastly, students who wish to do graduate work in archaeology in preparation for a career in teaching, research, or museum work will find the Archaeology minor to be excellent preparation, especially when combined with a major in an appropriate related area such as Anthropology, Classics, or Art History.

Required Courses

		Semester Hours
ANTH 205	Prehistoric Archaeology	3
GNHU 181	Classical Archaeology	3

Electives

Select 12 semester hours from the appropriate list to be obtained from the coordinator of the program. This group of courses will include at least one in Fine Arts 12

Criminal Justice Minor

Coordinator: David Dodd

This program is open to students in all majors who are interested in pursuing careers in Criminal Justice. It is designed to prepare individuals to apply social scientific thought and methodology to work in Criminal Justice agencies.

Required Courses

			Semester Hours
SOCI	101	Criminology	3
SOCI	301	Sociological Research Method I	4
SOCI	323	Introduction to Criminal Justice	3

Electives

Select 12 semester hours from the appropriate list to be obtained from the Sociology Department, including at least three semester hours from approved courses outside sociology.



Film Minor

Director: Janet Cutler

An interdisciplinary program, designed for students in both the humanities and the fine arts, the Film Minor offers experience in filmmaking, as well as criticism, history, theory, and aesthetics.

Required Courses (6 semester hours)

ARFL	218	Filmmaking I	3
ENFL	208	Introduction to the Film	3

Electives

Survey Courses (6 semester hours)

Students must select two of the following:

ARFL	219	Filmmaking II	3
ENFL	250	Major Film Directors	3
ENFL	255	World Film	3
ENFL	260	Major Film Genres	3

Specialized Courses (6 semester hours)

Students must select two of the following:

ARFL	221	Video-TV As Art	3
ARFL	299	History of Cinema as Art	3
ARFL	453	Filmmaking III	3
ARFL	499	Filmmaking IV	3
ENFL	310	Screenwriting I	3
ENFL	350	Three Directors	3
ENFL	356	The Contemporary Film	3
ENFL	357	American Film to 1945	3
ENFL	358	American Film 1945 to the Present	3
ENFL	360	Film Comedy	3
ENFL	410	Screenwriting II	3
ENFL	490	Special Topics in Film Studies	3
FRIN	286	French Film	3
GNHU	286	French Film	3
SPIN	277	Italian Film	3

International Studies Minor
(18 Semester Hours)

Director: Benjamin Hadis

The purpose of this interdisciplinary minor is to provide students with an education that broadens their knowledge of the peoples of the world, international events, and the socio-economic and socio-political background to global affairs. To do this, it integrates area studies and the study of international problems viewed from a cross disciplinary perspective. New curricular efforts, including global perspectives in issues-oriented courses, are emphasized.

This minor provides a splendid foundation for careers in which an understanding of international economic, political, social, and cultural affairs is of importance; it also provides a foundation for graduate work in the field; and is an excellent complement to majors in the humanities, social sciences, fine arts and business.

Required Courses

Basic Core Requirements			Semester Hours
INTL	100	Introduction to Global Issues	3
INTL	400	Integrative Seminar in International Studies	3

Electives

Select twelve semester hours from the appropriate list to be obtained from the director of the program. These electives will include six semester hours in area studies courses and three semester hours each in global issues and courses with international focus.

Courses of Instruction

INTL 100
INTRODUCTION TO GLOBAL ISSUES 3.0
This course is designed to offer students an opportunity to study, in a cross-cultural context, a number of topics which are of a global nature and affect humanity in profound ways and which may influence the evolution of world trends.

INTL 301
STUDY ABROAD 6.0-12.0
Actual courses of instruction are those offered by institutions taking part in Montclair State's study abroad or student exchange programs. Students participating in the program will select, in advance, the courses by consulting with the director of International Studies, their academic advisors, and the coordinator of the overseas program at the host institution.
Prerequisites: Completion of 45 credits prior to enrollment; a grade point average of at least 2.70.

INTL 400
INTEGRATIVE SEMINAR IN INTERNATIONAL STUDIES 3.0
Directed research and preparation of seminar reports and written papers on topics which utilize comparative as well as interrelated approaches to international and global issues and themes.
Prerequisites: 9 semester hours of courses in the International Studies Minor, including Introduction to Global Issues.

Women's Studies Minor

Director: Adele B. McCollum

The Women's Studies Minor program is an interdisciplinary academic program. The minor includes two required three credit core courses: an introductory interdisciplinary course and an independent study project at the end of the minor program. Flexibility of choice of the other 12 credits from courses in various academic departments permits a student either to get a broad perspective of women's studies or to specialize in an area such as women in literature or women in society. Each student should consult with the Director of the Women's Studies program, to work out a suitable course of studies to meet the minor requirements. The Women's Studies minor consists of 18 credits.

Required Courses

Semester Hours			
WMST	102	Women's Worlds	3
WMST	401	Independent Study	3

Electives

Select 12 semester hours from the appropriate interdepartmental list to be obtained from the coordinator of the program 12

Additional selected topics courses are offered periodically.

Courses of Instruction

Women's Studies

WMST 102
WOMEN'S WORLDS 3.0
This course introduces the student to the broad and interdisciplinary field known as Women's Studies. Designed to make students aware of the new discoveries in feminist research and to focus on many aspects of the female experience. Designed to help students understand different methodologies in diverse disciplines and to treat areas such as literature, history, psychology, and the arts through a thematic approach. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement. Also listed in Psychology under PSYC 102.

WMST 401
INDEPENDENT STUDY 3.0
This course, required in the senior year, will have two options: A) Advanced research in a project in a particular discipline using the tools a student has acquired in his/her studies; B) A practicum of field work in which a student goes out into the community to work with women and to gain data and first hand experience concerning the practical problems of women within various careers.

Anthropology

ANTH 415
WOMEN IN TRADITIONAL SOCIETY 3.0
This course surveys several traditional pre-industrial societies with special emphasis on the place of women in each society studied. The connections between environment, technology and the female work role are investigated, and the amount of power women have over their own lives and those of others is assessed. The place of women in each society's symbolic systems is also analyzed. Meets the Multicultural Awareness Requirement.

Classics

GNHU 383
WOMEN IN ANTIQUITY 3.0
Women in the ancient world and their contributions to history, literature, philosophy, and the arts. Emphasis on Greco-Roman civilization, with comparative study of other ancient cultures.Meets the Multicultural Awareness Requirement.

Counseling, Human Development and Educational Leadership

COUN 481

THE LEGAL RIGHTS OF WOMEN 3.0

This course will include some historical background for clearer understanding of what the changes in laws mean for women and men. Discussion and study of the effect of Affirmative Action, Civil Rights legislation and Titles VI and IX will be included. Legal rights in the areas of education, employment, finances and credit, property ownership, marriage and divorce, health care, pensions and criminal law will be covered.Meets the Multicultural Awareness Requirement.

Economics and Finance

ECON 250

SELECTED TOPICS IN ECONOMICS 3.0

(Economics of Women)

An in-depth study of a particular theoretical or applied area of economics. (Topic will be Economics of Women.)

Educational Foundations

EDFD 264

SEXISM IN AMERICAN EDUCATION 3.0

Designed to analyze sexism in the American school with emphasis on sex role stereotyping in teacher behavior, peer behavior, curriculum and textbook content. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement.

English

ENGL 294

WOMEN POETS 3.0

Selected poets from Sappho through Emily Dickinson to Sylvia Plath, examined in relation to contemporary women poets. Meets the Multicultural Awareness Requirement.

ENGL 493

SEMINAR IN AMERICAN LITERATURE 3.0

(Images of Women)

The works of one major American author in depth or of a group of authors whose works are related by theme, artistic form or cultural period. Enrollment limited.

Prerequisite: Junior or senior English majors or permission of the instructor.

ENLT 372

WOMEN PROSE WRITERS 3.0

Readings in the international fiction and non-fiction of women writers. The focus will be on such themes as the nature of the family changing relationships between women and men, evolving concepts of the "feminine," the impact of colonialism on gender related issues, (i.e., work and women's identity), and interrelationships between religion and women's lives.

ENLT 492

SEMINAR IN COMPARATIVE LITERATURE 3.0

A culture, era, theme, or literary approach studied through international literary masterpieces. Topic: selected writings in Women's Utopian and science fiction literature with an emphasis on the literature of the twentieth century.

Prerequisite: Junior or senior English majors or permission of instructor.

Fine Arts

ARHS 108

WOMEN IN ART 3.0

The role and status of women in art from the old stone age through the present; the special roles of women in the past, in society, the role of women artists in Western culture from the Renaissance to the present; depictions of women in different iconographic categories; women as artists today. Meets the General Education Requirement - Fine and Performing Arts: Art Appreciation.

History

HIST 215

WOMEN IN AMERICAN HISTORY 3.0

The changing role and status of women in American society from colonial times to the present. Meets the Multicultural Awareness Requirement.

HIST 309

FEMINIST IDEAS IN WESTERN THOUGHT 3.0

History of feminist ideas and theories about women and womanhood. Students examine important theoretical literature in Europe and America from 18th century to present. Original texts of Wollstonecraft, Fuller, Mill, and Freud will be considered against their socio-historic milieu.

Home Economics

HECO 205

WOMEN IN CONTEMPORARY SOCIETY 3.0

Those historical developments and social forces which have shaped the status of women in America. Discussion of current concerns and role options available to today's women. Meets the General Education Requirement - Contemporary Issues. Meets the Multicultural Awareness Requirement.

Legal Studies

LSLW 391

WOMEN AND THE LAW 3.0

This course is designed to help students to understand and evaluate the changing patterns of gender-based laws in the United States in terms of the preferences they reflect and the rationales used to justify them. Emphasis will be placed upon issues which impact upon women's rights, Supreme Court cases which impact upon the roles and rights of women, and legislation.

Linguistics

LNGN 255

WOMEN, MEN AND LANGUAGE 3.0

A sociolinguistic study of sex differentiation in English and other languages. Course includes a survey of the literature on women and language plus practical experience in collecting and analyzing linguistic data. Meets the General Education Requirement - Social Science, Topic Course. Meets the Multicultural Awareness Requirement.

Philosophy and Religion

RELG 267

WOMEN IN RELIGION 3.0

Focuses on women's own experience in religions and the various perspectives of women held by both eastern and western religious traditions. The course deals with questions such as the nature of women, patriarchy and religion, and roles of women in religions. Meets the Multicultural Awareness Requirement.

Psychology

PSYC 265

PSYCHOLOGY OF WOMEN 3.0

The course will investigate contemporary issues in the psychology of women (an opportunity for original research will be provided). Theoretical positions and recent research in the area will be examined. Meets the General Education Requirement - Social Science, Topic Course. Meets the Multicultural Awareness Requirement.

Prerequisite: 6 semester hours in psychology.

Sociology

SOCI 414

SELECTED TOPICS IN APPLIED SOCIOLOGY 3.0

(Women and Work)

A study of women's work in contemporary society.

SOCI 430

SOCIOLOGY OF GENDER 3.0

The social determinants of differences between women and men and the effect of sex role differentiation in the social institutions of marriage and family, the economy and work situation, formal education, health, mass media, and religion. Special emphasis is placed on the impact of social change on sex roles in contemporary society. Meets the Multicultural Awareness Requirement.

SPECIAL PROGRAMS

Cooperative Education

Director: Freyda Lazarus

Cooperative Education is an experiential education program designed to integrate academic study with supervised and salaried work experiences.

Participating students earn a salary, academic credits, and have an opportunity to observe first-hand emerging workplace trends. As a result of enrolling in co-op, students better understand how their course of study translates into after graduation employment or can assist with graduate school application.

The Cooperative Education staff guides students through the preparation and placement process. Faculty advisors assess student learning and participating employers provide on-site supervision.

Eligibility

Cooperative Education enrollment is open to degree-seeking students from all majors who have completed 45 credits and have a 2.00 grade point average.

Transfer students must have completed 15 credits at Montclair State prior to placement.

Some academic departments have additional requirements which are described in each of the departmental co-op courses.

Preparation for co-op placement

Through every stage of the program, co-op students receive guidance and assistance. An initial video program introduces the co-op experience and familiarizes students with what they can expect as they become involved in the program.

A Professional Preparation Workshop is required of interested students to identify their values, skills, and interests in order to better prepare for their co-op employment interview.

Individual counseling is provided by co-op coordinators as students obtain final placement and complete the registration process.

Obtaining a co-op position

The Cooperative Education Office maintains a network of participating employers in business, laboratories, government and the social service sector. Co-op Coordinators submit student profiles to potential employers who review applicants, select candidates and make final selections.

A supervised learning experience

The Cooperative Education Program affiliates with employing organizations that will provide opportunities for learning. Every effort is made to structure the work experience to maximize student growth and development.

Once enrolled, a faculty advisor is assigned to each student who devises a Learning Agreement and assigns academic projects to be completed in conjunction with the work experience. This faculty advisor makes site visits to the workplace and assigns a letter grade at the close of the co-op semester. On-campus seminars are required by many faculty advisors to provide opportunities for students to share work experiences, discuss work-related challenges, and focus on informal learning. An employment work supervisor also provides guidance during the work term and provides feedback on job performance.

Obtaining college credit

All cooperative education experiences are credit bearing therefore placements must be finalized before registering in one of the co-op courses. The Co-op staff will provide placed students with a "Permission To Register Form" to expedite College registration.

Credits for multiple placements are granted up to a maximum of 16 over the course of two to three Co-op semesters. Credit is granted for each semester of participation, including the summer term. The specific number of credits earned ranges from 3.0 to 8.0 per semester, depending upon the duration of the co-op assignment. Multiple co-op experiences may take place in a single work setting or in different employing organizations.

Advance Placement

The Cooperative Education Office seeks to provide every student with the maximum benefits available from this experiential learning program. Students are therefore strongly urged to contact the Co-op Office early in their academic careers and apply for Co-op at least four months before placement is desired. Careful planning is necessary in order to insure that all departmental and Co-op requirements are met.

The Cooperative Education Office is located in the Student Center Annex, Room 104. Telephone: 201-893-4426.

Cooperative Education Courses

			Semester Hours
COED	**301**	**Cooperative Education-Experience I**	**3.0-8.0**
COED	**401**	**Cooperative Education-Experience II**	**3.0-8.0**
BEOS	230	Introduction to Business Work Experience	4.0-8.0
BIOL	409	Externship in Biological Research (Cooperative Education)	1.0-4.0
CMPT	499	Cooperative Education in Computer Science	3.0-8.0
ENWR	301	Cooperative Education (English)	8.0
FINC	491	Cooperative Education-Finance (only for Coop II's)	3.0-8.0
FINQ	491	Cooperative Education-Quantitative Methods	3.0-8.0
FREN	380	Cooperative Education for the French Major	4.0-8.0
GERM	385	Cooperative Education for German Majors	4.0-8.0
GNHU	391	Cooperative Education for the Liberal Arts	4.0-8.0
INDS	460	Cooperative Industrial Internship	4.0-8.0
ITAL	385	Cooperative Education (Italian)	4.0-8.0
LSPR	326	Cooperative Education: Paralegal Studies	4.0-8.0
MKTG	399	Business Work Experience II	4.0-8.0
PCOM	391	Cooperative Education in Psychology	9.0
PEMJ	380	Internship in Physical Education	8.0
PEMJ	381	Cooperative Education in Physical Education	4.0-8.0
PERL	381	Cooperative Education in Recreation and Parks	4.0-8.0
PORT	385	Cooperative Education (Portuguese)	4.0-8.0
SOCI	390	Cooperative Education in Sociology	8.0
SPAN	385	Cooperative Education (Spanish)	4.0-8.0

Courses of Instruction

COED 201
COOPERATIVE EDUCATION INTERNSHIP SEMINAR 1.0
The course is a seminar held concurrently for the student enrolled in the co-op program. It intends to provide students with the opportunity to observe, analyze, and process their off-campus work experience. The major goals of the course are to assist students in understanding themselves and the work world, and use this information to set new career directions.

COED 301
COOPERATIVE EDUCATION EXPERIENCE I 3.0-8.0
The cooperative plan is an instructional strategy that provides the student with controlled learning experiences in an employment situation while these experiences are building upon prior cognitive and technical skills attained in college. May be repeated for credit up to a maximum of 8.
Prerequisites: Determined by individual departments.

COED 401
COOPERATIVE EDUCATION-EXPERIENCE II 3.0-8.0
The cooperative plan is an instructional strategy that provides the student with controlled learning experiences in an employment situation while these experiences are building upon prior cognitive and technical skills attained in college. May be repeated for credit up to a maximum of 8.
Prerequisites: Determined by individual departments.

Health Careers Program

Director: Rosie Allen-Noble

The Health Careers Program provides highly motivated and academically capable disadvantaged students with potential for undergraduate success opportunities to prepare for careers in the health professions. This goal is achieved through a balance of formal course work, comprehensive supportive services, field experiences and financial assistance. Successful completion of the program is designed to increase competitive admission into professional schools.

The program works in close cooperation with the University of Medicine and Dentistry of New Jersey.

Direct inquiries should be made to the Health Careers Program Office, telephone (201) 893-4415.

Reserve Officers Training Corps (ROTC)

Army

The department of Military Science at Seton Hall University offers courses and a program in military science designed to qualify young men and women for commissions in the U.S. Army. Officers commissioned through ROTC are educated by the same professors, under the same curricula and at the same institutions which produce civilian leaders; earn degrees in the field of their choice; represent all geographic, economic and social strata; are highly motivated, openminded and civilian oriented. Army ROTC aids students by providing leadership and management experience found in few college courses; providing opportunity for a military career in the active army or a reserve component; developing self-discipline, physical stamina and poise; enhancing development of management skills; and developing qualities basic to success in any career.

Montclair State College in concert with Seton Hall University has provided the opportunity for students interested in the ROTC program to receive instruction in basic military science courses at Seton Hall University for college credit. (All military science courses are applicable as free elective credits toward graduation from MSC.) Registration for these basic courses is through MSC. While basic instruction is open to all students, only those with two academic years remaining (undergraduate or graduate) may matriculate into the program leading to a commission as a second lieutenant.

In addition the Army awards scholarships on a competitive basis to outstanding young men and women who are interested in the Army as a career. The scholarships provide tuition, textbooks, laboratory fees, and a monetary allowance of $100 each month for up to ten months of each school year the award is in effect. Direct inquiries to the Scholarship Officer at Seton Hall, (201-763-3078), or the MSC Office of the Deputy Provost and Vice President for Academic Affairs.

Courses of Instruction

ROTC 100
INTRODUCTION TO U.S. ARMY AND ROTC 1.0
Military organizations, customs, tradition and life-styles. Introduction to basic military skills; role of the U.S. Army; branches of the Army; benefits of the service; professionalism and ethics of the Army officer.

ROTC 110
FUNDAMENTALS OF LEADERSHIP 1.0
Theory, methods and principles for understanding leadership and behavior in groups; the impact of the leader's behavior on the leadership process; and introduction to counseling as a leadership concept.

ROTC 111
LEADERSHIP LABORATORY 1.0
Hands-on training of the basic skills of a soldier, including weapons, first aid, chemical-biological-radiological (CBR) defense, communications and physical fitness training. Emphasis is placed upon utilization and maintenance of equipment. Students receive practical experience in leadership and management by assuming the responsibilities of leaders, trainers and staff officers.

ROTC 112
LEADERSHIP LABORATORY 1.0
Hands-on training of the basic skills of a soldier, including weapons, first aid, chemical-biological-radiological (CBR) defense, communications and physical fitness training. Emphasis is placed upon utilization and maintenance of equipment. Students receive practical experience in leadership and management by assuming the responsibilities of leaders, trainers and staff officers.

ROTC 130
TOPOGRAPHICAL MAP READING 1.0
An introduction to topographical map reading and land navigation techniques. Methods of navigating using the magnetic compass and natural terrain features. Use of map and compass in practical orienteering exercises.

ROTC 155
LEADERSHIP DEVELOPMENT 1.0
A study of the skills and knowledge that are the foundations for developing military leaders. Included are military courtesy and discipline, customs and traditions of the service, and an analysis of the leader's role in directing and coordinating the efforts of individuals and small units in accomplishing their missions.

ROTC 160
AMERICAN MILITARY HISTORY 2.0
A study of the development of American military institutions, policies, experiences and traditions in peace and war from colonial times to the present. Emphasis will be on the relationship between the military and other aspects of American society and the role of the military in the establishment, expansion, preservation, and development of the nation.

Special Education

Although there is no department of Special Education at Montclair State College, there are four undergraduate and 11 graduate programs which offer preparation for a variety of special education professions. These programs are coordinated by the Special Education Coordinating Committee (SECC). This interdisciplinary unit brings together programs from the schools of Humanities and Social Sciences, Professional Studies, and Fine and Performing Arts. Because SECC encourages academic programs which include practical experience as an essential component of training, it maintains the Psychoeducational Center, which is located on campus. See also the description under the Reading and Study Skills Center.

Information about the following programs may be found in this catalog: Communication Sciences and Disorders (Audiology and Speech Pathology), Music Therapy, Reading, Therapeutic Recreation.

APPENDIX OF SCHOLARSHIPS AND AWARDS

Accounting, Law and Taxation

KATHE BRODT MEMORIAL SCHOLARSHIP
Amount: *$500*
Criteria: *Concentration in accounting, 90 credits completed toward the baccalaureate degree, registered for full-time study (at least 12 semester hours each term during the year of grant), academic achievement and financial need.*
Contact: *Chairperson, Accounting, Law and Taxation Department*

Biology

CHARLES HADLEY MEMORIAL FUND FOR INDEPENDENT STUDENT RESEARCH
Amount: *Up to $275*
Criteria: *Students who have displayed excellence of work and need for financial assistance to complete their research and independent student projects in biology.*
Contact: *Chairperson, Biology Department*

VIOLA WHITNEY PFLEGER FUND
Amount: *$500*
Criteria: *Students of horticulture recommended by chairperson of biology or designee.*
Contact: *Chairperson, Biology Department*

Business Administration

RAFFAELA BASILE MEMORIAL SCHOLARSHIP
Amount: *Up to $500*
Criteria: *Upcoming junior or senior in the School of Business Administration, service to the College, favorable academic standing, and financial need.*
Contact: *Dean, School of Business Administration*

Career Services

CHARLES BARGERSTOCK MEMORIAL FUND
Amount: *$500 (per semester)*
Criteria: *Graduate students enrolled in the counseling, human services and guidance program. Available for internship ten hours weekly in Career Services Office, Department of Counseling, Human Development and Educational Leadership, or Graduate Studies Office.*

Chemistry and Biochemistry

SOKOL GRADUATE FELLOWSHIP IN CHEMISTRY
Amount: *$10,000*
Criteria: *Senior chemistry major at MSC who will be pursuing the doctorate in chemistry or a closely allied field at an approved graduate school; academic excellence; potential for success in doctoral studies and research.*
Contact: *Chairperson, Chemistry Department*

Cooperative Education

AMERICAN CYANAMID HIGH TECH SCHOLARSHIP
Amount: *$500 per student*
Criteria: *Two awards*
Distinguished scholars or SAT's 1200
Contact: *Financial Aid Office, Dr. Randall W. Richards III*

PRUDENTIAL CO-OP SCHOLARSHIP
Amount: *$2,200 (two Scholarships) Amount may vary*
Criteria: *Two Cooperative Education students who exhibit exceptional professional and personal growth; nomination, essay and interview required.*
Contact: *Office of Cooperative Education*

Economics

J. S. GANG SCHOLARSHIP
Amount: *Varies*
Criteria: *To provide incentive to outstanding students in the field of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are academic excellence and financial need.*
Contact: *Office of Development*

English

MARY BONDON SCHOLARSHIP AWARD
Amount *$1,000*
Criteria: *Qualified MSC English Department graduate student pursuing a career in the teaching profession in area of English Literature.*
Contact: *Chairperson, English Department, or English Graduate Program Coordinator*

LAWRENCE H. CONRAD MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *MSC graduate, pursuing graduate degree in American Literature or Creative Writing at the College. Selection based on value of thesis proposal and financial need.*
Contact: *English Department*

ANTHONY L. LOVASCO MEMORIAL FUND
Amount: *Varies*
Criteria: *Outstanding English student.*
Contact: *Chairperson, English Department*

BESSIE SASLAW SOLOMON MEMORIAL SCHOLARSHIP
Amount: *Varies*
Contact: *Chairperson, English Department*

Environmental, Urban and Geographic Studies

BERTRAND BOUCHER SCHOLARSHIP FUND
Amount: *Varies*
Criteria: *Environmental, Urban and Geographic Studies major.*
Contact: *Chairperson, Environmental, Urban and Geographic Studies Department*

Fine Arts

THE ELFRED S. GROVER MEMORIAL SCHOOL IN ART AND DESIGN
Amount: *Varies*
Contact: *Chairperson, Fine Arts Department*

HOLLACE M. WYCKOFF SCHOLARSHIP
Amount: *Varies*
Criteria: *One student from each department, School of Fine and Performing Arts, high academic standing.*
Contact: *Office of Development.*

French

FRENCH DEPARTMENT SCHOLARSHIP FOR GRADUATE STUDY
Amount: *$500 ($250 per semester)*
Criteria: *Financial need and merit.*
Contact: *Chairperson, French Department*

Geography

MILSTEAD AWARD FOR EXCELLENCE IN GEOGRAPHY
Amount: *Approximately $150*
Criteria: *Junior major in environmental, urban and geographic studies with high academic standing; minimum 12 hours in major shows future promise as a professional geographer.*
Contact: *Dr. Harbans Singh, Environmental, Urban and Geographic Studies Department.*

German/Russian

OVERSEAS NEIGHBORS EXCHANGE SCHOLARSHIP
Amount: *28,000 Austrian Schillings (about $1,700), plus room, health insurance and 20-day pass on Austrian National Railway.*
Criteria: *Undergraduate student fluent in German, ability to do university work. Decision made by interview committee.*
Contact: *Chairperson, German/Russian Department. Apply during early spring semester.*

Graduate Studies

HAROLD C. BOHN FELLOWSHIP
Amount: *Varies*
Criteria: *Senior who shows promise in any academic discipline and presents a bonafide plan for graduate study.*
Contact: *Office of Development*

WILLIAM A. CUFF MEMORIAL AWARD
Amount: *$500*
Criteria: *Deserving student entering the teaching field, must consult with Dr. Michelli, Dean, School of Professional Studies.*
Contact: *Dean, School of Professional Studies*

PHI DELTA KAPPA SCHOLARSHIP
Amount: *Varies. Usually two awards covering cost of one graduate course.*
Criteria: *Matriculated student in education master's degree program.*
Contact: *Dean, School of Professional Studies*

SIMONE PICARD ASSISTANCE FUND
Amount: *Varies*
Criteria: *Student enrolled in a master's degree or other post-baccalaureate program at Montclair State College. Preference will be given to applicants preparing for careers in teaching or related educational areas. Under circumstances deemed exceptional by the Committee; partial assistance may be granted to baccalaureate degree students who have completed at least 60 semester hours of work of which 24 semester hours had been completed at Montclair State College.*
Contact: *Anthropology Department*

THE ERCELL I. WATSON MEMORIAL FUND
Amount: *$100*
Criteria: *Educator who is matriculated in or a graduate of a master's degree program in the School of Professional Studies.*
Contact: *Dean, School of Professional Studies*

Health Professions

PANZER TRUST INCENTIVE SCHOLARSHIP
Amount: *$200*
Criteria: *Health major who has been accepted for graduate work at a college or university.*
Contact: *Chairperson, Department of Physical Education, Recreation and Leisure Studies*

Hispanic Students

NORTH WARD CENTER SCHOLARSHIP
Amount: *$500 (2 awards)*
Criteria: *MSC students from the North Ward Center's Hispanic Community.*
Contact: *Office of Development*

History

JULIAN J. JAFFE MEMORIAL AWARD
Amount: *$75-$100*
Criteria: *Undergraduate student who has shown distinction in history and a "concern for the truth about the past."*
Contact: *Chairperson, History Department*

WILLIAM McLEAN SCHOLARSHIP
Amount: *$500 (junior or senior year)*
Criteria: *Outstanding junior-year history major who has demonstrated appreciation of the comprehensiveness of historical study and the interrelatedness of history, the social sciences and the humanities. A minimum average of 3.00 in history and an overall average of at least 2.67 are required.*
Contact: *Chairperson, History Department*

GARY RICHARD TAMIRIAN MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *Outstanding junior or senior history or political science major with a 3.50 or better cumulative grade point average. Demonstration of service to community, committed to humanitarian endeavors.*
Contact: *Dr. Peter Macaluso, History Department*

Home Economics

ESSEX COUNTY HOME ECONOMICS EXTENSION COUNCIL SCHOLARSHIP
Amount: *$200*
Criteria: *Junior student; high academic standing; financial need; professional potential; resident of Essex County.*
Contact: *Chairperson, Home Economics Department*

ESSEX/HUDSON ECONOMICS ASSOCIATION SCHOLARSHIP
Amount: *$200*
Criteria: *Junior student; high academic standing;professional potential; financial need; Essex or Hudson county resident.*
Contact: *Chairperson, Home Economics Department*

FASHION STUDIES AWARD
Amount: *$100*
Criteria: *Fashion Studies major; high academic standing; participation in college and/or community activities; professional potential.*
Contact: *Chairperson, Home Economics Department*

KATHARINE B. HALL ALUMNI AWARD
Amount: *$100*
Criteria: *Junior who is a member of the MSCHEA, has a B or better average, and is outstanding in social and professional activities.*
Contact: *Chairperson, Home Economics Department*

MONTCLAIR STATE COLLEGE HOME ECONOMICS ASSOCIATION SCHOLARSHIP
Amount: *$100 or more*
Criteria: *Junior or senior standing; high academic standing; professional potential as demonstrated in professional/community activities; financial need; active in MSC Home Economics Association.*
Contact: *Chairperson, Home Economics Department*

NEW JERSEY HOME ECONOMICS ASSOCIATION SCHOLARSHIP
Amount: *$200*
Criteria: *Sophomore or junior student with a B or better average active participation in MSCHEA.*
Contact: *Chairperson, Home Economics Department*

Juniors and Seniors

ALUMNI ASSOCIATION SCHOLARSHIP
(Includes the Dortch/Dickson Scholarship)
Amount: *$1,000 (22 scholarships)*
Criteria: *Service to the campus; good academic standing; juniors and seniors; financial need.*
Contact: *Alumni House (applications available in January deadline March 1st for following academic year)*

ALUMNI ENDOWMENT SCHOLARSHIP
Amount: *$250 to $1,000*
Criteria: *Good academic standing (i.e., minimum cumulative grade point average of 3.0) and financial need.*
Contact: *Dean of Students*

NEW JERSEY BELL TELEPHONE COMPANY SCHOLARSHIP
Amount: *To be determined—two scholarships*
Criteria: *One junior student—one senior student. One male student—one female student. 3.50 average or better. Leadership and service to the College and community (awarded in late fall or early spring).*
Contact: *Director of Financial Aid*

Mathematics and Computer Science

MAX A. SOBEL FELLOWSHIP
Amount: *Amount and frequency varies.*
Criteria: *Graduate student in mathematics education; nominated by mathematics education faculty.*
Contact: *Chairperson, Mathematics and Computer Science Department*

JOHN C. STONE FUND
Amount: *$400—may vary*
Criteria: *Recommendation of Mathematics and Computer Science Department faculty with chairperson's approval; mathematics or computer science major.*
Contact: *Chairperson, Mathematics and Computer Science Department*

Media

EMANJ GRADUATE STUDY SCHOLARSHIP IN EDUCATIONAL MEDIA
Amount: *$500 two scholarships)*
Criteria: *Graduate media student, New Jersey*
Contact: *Educational Media Association of New Jersey*
Ms. Anita Sawczuk
The Old Turnpike School
Califon, NJ 07830
(908) 439-2010

EMMA FANTONE MEDIA GRANT
Amount: *Varies (provides for attendance at media conference in media field)*
Criteria: *Student interested in making media a career.*
Contact: *David S. Fogg, Media Center*

Merit Scholarships

ALUMNI ASSOCIATION INCENTIVE SCHOLARSHIP
Amount: *$1,000 (5 scholarships, non-renewable)*
Criteria: *Incoming full-time freshman; top 5% of his/her high school class; minimum combined SAT score of 1,000; record of school/community involvement; recommended by high school counselor.*
Contact: *Admissions office*

GEORGE G. KING MEMORIAL AWARD
Amount: *$100*
Criteria: *Outstanding contribution in community service, i.e., through community agencies.*
Contact: *Dean, School of Professional Studies*

THE PHYLLIS LEBOFF ENDOWMENT FUND IN HONOR OF HER HUSBAND, GERALD A. LEBOFF
Amount: *Varies*
Criteria: *Talented and gifted undergraduate and graduate students.*
Contact: *Office of Development*

HARRY S. TRUMAN SCHOLARSHIP - GOVERNMENT SERVICE LEADERSHIP DEVELOPMENT
Amount: *Varies (maximum $5,000 a year for up to 4 years)*
Criteria: *A merit scholarship awarded at the end of sophomore year to a student anticipating government service. Merit basis.*
Contact: *Dr. Rhoda Unger, Director of the Honors Program*

MARY A. WHALEY MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *Incoming freshman to Montclair State College; gifted, middle income background; those who do not qualify or take advantage of financial aid; or to supplement these aids for those who do.*
Contact: *Office of Development*

Modern Language

MARGARET B. HOLTZ FUND FOR STUDENT EXCHANGE
Amount: *$200-$1,000*
Criteria: *Student working in the field of modern language outside the U.S. and whose candidacy has approval of members of the Margaret B. Holtz Board of Trustees.*
Contact: *Dr. David Kelly, of Classics or Office of Development*

Music

LARRY A. FRANK MUSIC SCHOLARSHIP
Amount: *Varies*
Criteria: *Music student who shows promise as a music educator; music performer, music therapist, music composer, theorist or historian.*
Contact: *Chairperson, Music Department*

HOWE SCHOLARSHIP
Amount: *Varies*
Criteria: *Promise of ability and interest; restricted to student of the organ.*
Contact: *Chairperson, Music Department*

EDNA McEACHERN MUSIC FUND
Amount: *Varies*
Criteria: *Financial need, musicianship and contribution to the department.*
Contact: *Chairperson, Music Departmen*

THE CHARLES G. MUNIER MEMORIAL SCHOLARSHIP
Amount: *Varies*
Criteria: *A deserving piano student, preferably a junior recommended by faculty in the Music Department*
Contact: *Chairperson, Music Department*

CAROL H. WASSERMAN PIANO SCHOLARSHIP
Amount: *Varies*
Contact: *Chairperson, Music Department*

HOLLACE M. WYCKOFF SCHOLARSHIP
Amount: *Varies*
Criteria: *One student from each department, School of Fine and Performing Arts, high academic standing.*
Contact: *Office of Development*

Physical Education

PAUL P. BOGATKO SCHOLARSHIP
Amount: *Varies*
Criteria: *To provide incentive to a student in good standing and financial need in the field of physical education who is a graduate of East Side High School, Newark, N. J.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

MARGARET C. BROWN SCHOLARSHIP
(Donated by Robert Weston, '47)
Amount: *$150*
Criteria: *Sophomore physical education major with highest cumulative average who reflects some of Dr. Brown's professional ideals through leadership, service or participation in professional physical education activities on- or off-campus (i.e., conferences, workshops, conventions).*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

JOSEPH PAUL CERES SCHOLARSHIP
Amount: *Varies*
Criteria: *Outstanding sophomore or junior woman gymnast with exceptional ability and leadership in gymnastics.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

NICHOLAS CICCONE SCHOLARSHIP
Amount: *Varies*
Criteria: *Junior physical education major with skill in motivating older adults to keep fit through movement activities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

SUE FULLER MEMORIAL SCHOLARSHIP
Amount: *$500 approximately*
Criteria: *Junior woman in physical education; outstanding contributions through service to athletics (i.e. manager, publicity, statistician, etc.).*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

GERALD A. GARAFOLA SCHOLARSHIP
Amount: *$250*
Criteria: *Physical education sophomore who has made distinguished contributions and shown leadership in department activities, must have cumulative average of 2.80 or better.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

A. J. GORTON SCHOLARSHIP
Amount: *$100*
Criteria: *Junior maintaining a continuous satisfactory level of performing at a high level of skill in physical education activities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DOUGLAS GREULICH MEMORIAL SCHOLARSHIP
(Presented by Delta Chapter of Phi Epsilon Kappa Fraternity)
Amount: *$50*
Criteria: *Student who participates in some phase of the intercollegiate athletic program, has involvement in community and professional programs and exhibits high scholastic achievement (target 3.00 cumulative average).*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DEAN MARTINO MEMORIAL SCHOLARSHIP
Amount: *$100*
Criteria: *Junior physical education major who demonstrates a specific quality of Dean, as well as a willingness of the student to give time to others.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

JOSEPH NERENBERG SCHOLARSHIP
(Presented by Old Times Athletes)
Amount: *$100*
Criteria: *Freshman physical education major with highest scholastic record who, through participation in athletics, best represents sportsmanship as well as good scholarship.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PANZER STUDENT ASSOCIATION ADAPTED PHYSICAL EDUCATION AWARDS
Amount: *Varies*
Criteria: *Students who demonstrate exceptional service and qualities of leadership, understanding and creativity while fulfilling practicum assignments in the adapted area.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PANZER STUDENT SERVICE AWARD
Amount: *$50 Bond*
Criteria: *Student in good academic standing, who has provided outstanding leadership and service to the Panzer Student Association*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PANZER TRUST FUND
(3 incentive scholarships)
Amount: *$200*
Criteria: *Freshmen entering Montclair State College in the fall. Three scholarships will be obtainable:*
1. Physical Education major
2. Recreation and Leisure Studies major
3. Health Careers major
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department for #1 and #2*
Chairperson, Health Professions Department for #3

PANZER TRUST INCENTIVE SCHOLARSHIP
Amount: *$200*
Criteria: *For the recreation major who has been accepted for graduate work at a college or university.*

PANZER ALUMNI SCHOLARSHIP
Amount: *$200*
Criteria: *Freshman physical education student with highest scholastic average and evidence of professional competence.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

ELVERA DE MUTH PERKINS SCHOLARSHIP
Amount: *$200*
Criteria: *Freshman Physical Education major who gives evidence of promise for making positive contributions to the field of physical education; financial need.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

PHI EPSILON KAPPA AWARD, DELTA CHAPTER
Amount: *$50*
Criteria: *Recreation major who has shown constructive leadership in student activities and has a cumulative grade point overage of at least 3.00.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

ELYSIA PHILIPP SCHOLARSHIP
Amount: *Varies*
Criteria: *A capable student in need of aid to continue his/her education in the Panzer Department of Physical Education. Evidence of need required.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DR. RICHARD W. TEWS AWARD
Amount: *$50*
Criteria: *Contribution to physical education through services in the Panzer Student Association; cumulative grade point average of 2.75 or more.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

THOMAS THOMAS SCHOLARSHIP
Amount: *$100*
Criteria: *Two physical education junior students who have shown particular interest and skill in working with individuals possessing development disabilities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DR. HAZEL M. WACKER AWARD
Amount: *$50*
Criteria: *For a student who contributes to physical education through service in the Panzer Student Association, and who has a cumulative average of 2.75 or more.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

DOROTHY AND VINCENT FARRELL SCHOLARSHIP
Amount: *Varies*
Criteria: *Freshman only, high academic achievement and active participation in Department activities.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

THERESA FARRELL AWARD
Amount: *Varies*
Criteria: *Sophomores only; highest scholastic standing.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

Physical Education, Recreation and Leisure Studies

SCOTT AND DOROTHEA HARRIS SCHOLARSHIP
Amount: *Varies*
Criteria: *Sophomores only, scholastic achievement 3.00 cumulative grade point average, good citizen of the College and the community, gives promise of being a successful teacher of physical education.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies Department*

MATTHEW (PAT) KENNEDY SCHOLARSHIP
Amount: *Varies*
Criteria: *Freshman only, acceptable academic achievement, positive image, competencies in a number of physical education areas.*
Contact: *Chairperson, Physical Education, Recreation and Leisure Studies*

Political Science

J. S. GANG SCHOLARSHIP
Amount: *Varies*
Criteria: *To provide incentive to outstanding students in the fields of economics or political science who remain at Montclair State College for their upper division work. Criteria in order of priority are to have excelled academically and to be in financial need.*
Contact: *Office of Development*

Psychology

WILLIAM DORTCH, JR. SCHOLARSHIP
Amount: *$700*
Criteria: *Entering Freshman with high school grade of C or better; financial need; appreciation of Christian ethic; potential contribution to field of human development; also matriculated students who meet these criteria.*
Contact: *Organization of Students for African Unity or Psychology Department*

ORPHA M. LUTZ LOAN FUND
Amount: *Varies*
Criteria: *Financial loan to Montclair State College student majoring in psychology.*
Contact: *Chairperson, Psychology Department*

JEROME M. SEIDMAN AWARD FOR EXCELLENCE IN PSYCHOLOGY
Amount: *$100 each*
Criteria: *The man and woman graduating psychology majors with the highest cumulative averages. In the event of a tie, selection based on service to school and community. Awarded annually in May.*
Contact: *Chairperson, Psychology Department*

School of Business Administration

MICHAEL AND GERTRUDE HANCOUSKI FUND
Amount: *Varies*
Contact: *Dean, School of Business Administration*

School of Professional Studies

THE J. THOMAS FLAGG OUTSTANDING STUDENT TEACHERS AWARD
Amount $100
Criteria: Senior completing student teaching and nominated by faculty member.
Contact: Dean, School of Professional Studies

TEACHERS CLUB OF MONTCLAIR AWARD FOR SCHOLARSHIP
Amount: Varies
Criteria: Junior admitted to Teacher Education.
Contact: Dean, School of Professional Studies

Second Careers

RALPH P. LASALLE SCHOLARSHIP
Amount: $100
Criteria: Part-time Montclair State College student enrolled in a degree program, 50 years of age and older, awarded in the spring and fall.
Contact: Second Careers Program

Spanish and Italian

TERESA DEESCORIZA SCHOLARSHIP, SARA PRIETO SCHOLARSHIP
Amount: Varies (two scholarships)
Criteria: Merit—sophomore standing, minimum 12 credits in Spanish at time of application, extracurricular activities at Montclair State College, community services, special honors, financial need.
Contact: Spanish and Italian Department

ITALIAN CLUB SCHOLARSHIP
Amount: Varies
Criteria: Interest in Italian culture or language, to further education here or abroad; must have good scholastic average; letter of recommendation; and some financial need.
Contact: Spanish and Italian Department or Italian Club

SARA PRIETO SCHOLARSHIP
Amount: Varies
Criteria: Merit—Sophomore standing, minimum 12 credits in Spanish at time of application, extracurricular achievement at MSC, community service, special honors, financial need. specifically for study abroad.
Contact: Spanish and Italian Department

Broadcasting, Speech Communication, Dance and Theatre

WILLIAM A. BALLARE MEMORIAL FUND
Amount: Varies
Criteria: 1. Speech and Theatre major enrolled in teachers' certificate program, 2. undergraduate, 3. highest academic average in teachers' certificate program, 4. demonstrates positive potential to teach.
Contact: Chairperson, Broadcasting, Speech Communication, Dance and Theatre Department

THE DANCE SCHOLARSHIP
Amount: Varies
Criteria: Outstanding dance student chosen on basis of potential, contribution and talent.
Contact: Chairperson, Broadcasting, Speech Communication, Dance and Theatre Department

THE JOSEPH F. BELLA THEATRE AWARD
Amount: Varies
Criteria: Outstanding B.F.A. technical major chosen on basis of potential, contribution and promise of talent.
Contact: Chairperson, Broadcasting, Speech Communication, Dance and Theatre Department

MALCOM FAIRFIELD FUND
Amount: Varies
Criteria: Financial support for special student and faculty activities beyond normal College budgeting. Student pursuing independent study in theatre—apply by submitting a proposal for amount of money.
Contact: Chairperson, Broadcasting, Speech Comunication, Dance and Theatre Department

DENNIS K. McDONALD SCHOLARSHIP AND AWARD IN THEATRE
Amount: $100
Criteria: Theatre graduate or undergraduate (junior or senior) Performance quality, professional potential, evidence of continued development, 3.00 in theatre courses.
Contact: Chairperson, Broadcasting, Speech Communication, Dance and Theatre Department

DENNIS K. McDONALD MEMORIAL SCHOLARSHIP
Amount: $300
Criteria: Freshman student pursuing B.F.A. in theatre; audition required; academic competence. Based on admission audition.
Contact: Chairperson, Broadcasting, Speech Communication, Dance and Theatre Department

HOLLACE M. WYCKOFF SCHOLARSHIP
Amount: Varies
Criteria: One student from each department, School of Fine and Performing Arts, high academic standing.
Contact: Office of Development

Student Teaching

RUTH LEWIN ENDOWMENT FUND
Amount: varies (2 or 3 awards annually)
Criteria: To be used specifically for helping students in teacher education, who need financial assistance; no other requirements stipulated.
Contact: Dean, School of Professional Studies

THE J. THOMAS FLAGG OUTSTANDING STUDENT TEACHER AWARD
Amount: $100
Criteria: Senior completing student teaching and nominated by faculty member.
Contact: Dean, School of Professional Studies

BERGEN COUNTY RETIRED EDUCATORS ASS'N SCHOLARSHIP
Amount: $500 (2 awards annually)
Criteria: One sophomore and one junior student, full-time students, 3.0 GPA and potential teacher; preference given to Bergen County, NJ residents.
Contact: Director of Financial Aid

LARRY DOBY SCHOLARSHIP—NJ NETS
Amount: Varies
Criteria: High School graduate of Montclair High School or Paterson Eastside High School, academically talented
Contact: Office of Development

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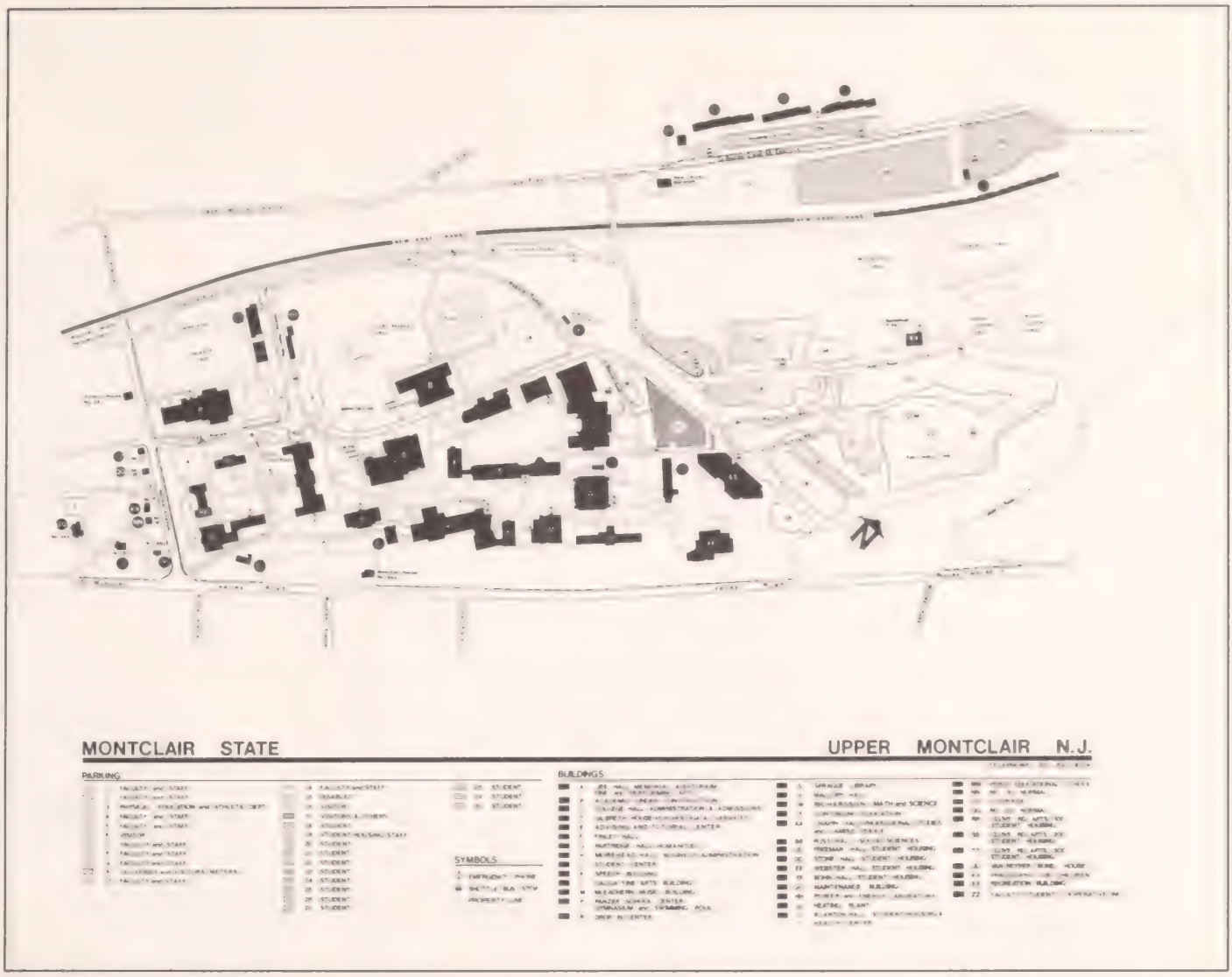
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Directions to Campus

Montclair State is on Valley Rd. and Normal Ave., Upper Montclair, N.J., one mile south of the junction of Routes 3 and 46.

By Car From:

Bloomfield Ave., Montclair: North on Valley Road, 3.3 miles to Normal Avenue light, turn left.

Route 46 (East and West): Valley Road, Montclair exit (at Route 3 junction), south for approximately one mile to Normal Avenue light, turn right.

Route 3: Valley Road, Montclair exit (at Route 46 junction), south for approximately one mile to Normal Avenue light, turn right.

Garden State Parkway South: Exit 154 to Route 46 West, to Valley Road, Montclair exit, left one mile to Normal Avenue light, turn right.

Garden State Parkway North: Exit 153B (left lane) to Route 3 West to Valley Road, Montclair exit, left one mile to Normal Avenue light, turn right.

New Jersey Turnpike: Exit 16W to Route 3, Valley Rd., Montclair exit, left one mile to Normal Ave. light, turn right. Motorists traveling on the Turnpike south of Exit 11 may exit there to Garden State Parkway North.

Lincoln Tunnel: Follow Route 3.

George Washington Bridge: Route 80 to Garden State Parkway South.

By Public Transportation* From:

New York City *(by train)*: Take PATH Service to Hoboken, transfer to NJ Transit Boonton Line, and get off at Montclair Heights Station at southwest corner of campus. *(Service available only on weekdays in the afternoon and evening.)*

New York City *(by bus)*: DeCamp Bus No. 66 leaves from the Port Authority Bus Terminal; get off at Mt. Hebron and Valley roads, turn right (north) on Valley, and walk one block to the Normal Avenue traffic light, then turn left to campus entrance.

Newark: NJ Transit Bus No. 28 originates at Macy's, Washington and Williams streets, and terminates its run on campus.

Paterson: NJ Transit Bus No. P4 travels from Main Street and Broadway in Paterson; transfer at Main and Center streets in Little Falls to No. P5 to Montclair State. Or, NJ Transit Bus No. 72 originates at Broadway Terminal, Paterson, and goes to Broad Street, Bloomfield. Change to No. 28 at Bloomfield Center.

The Oranges: Take One Bus Co. No. 44 to Main and Day streets in Orange. Connect to NJ Transit Bus No. 92 to Glenwood and Bloomfield avenues. Change to NJ Transit Bus No. 28.

Passaic: NJ Transit Bus No. P5 originates at Main Street and Passaic Avenue in Passaic and travels through Clifton to Montclair State.

Jersey City: Friendly Bus Service Bus No. 22 originates at Platform D4 in Journal Square Path Center and ends its run on campus. *(Weekdays only.)*

Wayne: NJ Transit Bus P5 originates at Willowbrook Mall and ends its run on campus.

* Subject to change without notice. Information available from New Jersey Transit, 800-772-2222.

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